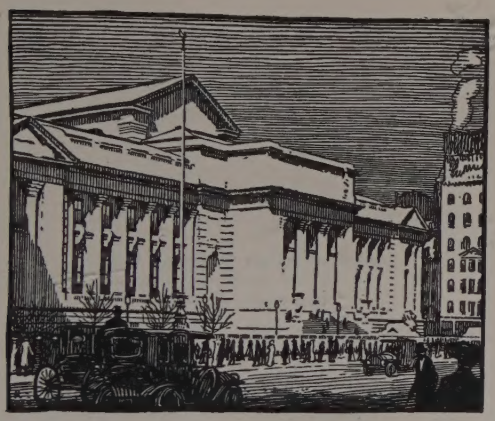
BULLETIN

OF THE

NEW YORK PUBLIC LIBRARY

ASTOR, LENOX AND TILDEN FOUNDATIONS



NOVEMBER 1926

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EARLY LIBRARY DEVELOPMENT IN NEW YORK STATE (1800–1900). BY GEORGE WATSON COLE. PART I - - - - - - - - 849

MARY CASSATT — PRINT-MAKER - - - - - - - - - 858

NEWS OF THE MONTH - - - - - - - - - - - - 860

NEW PERIODICALS - - - - - - - - - - - - 862

THE S. P. AVERY COLLECTION OF PRINTS - - - - - - - - 864

JEWISH LIFE IN ORIENTAL COUNTRIES - - - - - - - 868

ECONOMIC AND SOCIOLOGICAL PERIODICALS IN THE NEW YORK PUBLIC LIBRARY. PART VII. MONEY, CREDIT, AND PRICES - - - 881

INSULATING OIL (1900–1925). A LIST OF REFERENCES IN THE NEW YORK PUBLIC LIBRARY. PART I - - - - - - - - 892

CIRCULATION STATISTICS FOR THE MONTH OF OCTOBER - - - 908

PRINCIPAL DONORS IN OCTOBER - - - - - - - - - 909

PUBLICATIONS OF THE NEW YORK PUBLIC LIBRARY - - - - - 910

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VOLUME 30 NOVEMBER, 1926 NUMBER 11

EARLY LIBRARY DEVELOPMENT IN NEW YORK STATE (1800–1900)

BY GEORGE WATSON COLE, L.H.D. (Litt.D.)
Librarian Emeritus of the Henry E. Huntington Library and Art Gallery

PART I

IN this age of active and widespread library interest, it requires some little effort to carry our minds back and correctly visualize the conditions that existed one hundred years or more ago. To aid in so doing, it will be well to remember that less than two decades separated the year 1800 from the close of the Revolutionary War and but little more than a decade from the adoption of the Federal Constitution.

In 1771, just before the Revolutionary War broke out, the population of New York City was only about 22,000. Its increase during the contest was slow. After the close of the war the city began to grow rapidly, so that in 1790 it numbered over 33,000. In 1800, or at the period to which attention

NOTE — Other recent articles on this subject, which have appeared in the BULLETIN, are "The Library Celebrates a Centennial" [*i.e.*, the Harlem Library] in the BULLETIN, September, 1925; and "Petitioners for Founding the Albany Library in 1792," in the BULLETIN, September, 1926.

is here particularly called, the population, according to the census of that year, had increased to a little over 60,000. This population, it was said, was confined within a somewhat limited area, the street farthest up-town being below Canal Street, on both the east and west sides of Broadway.

Of the other towns in the State, Albany, alone, was of any considerable size. Although the capitol of the State, and occupying a commanding position, we are told that it "was nevertheless, in point of size, commercial importance, and architectural dignity, but a third- or fourth-rate town. It was not, in some respects, what it might have been . . . Its population could . . . not have exceeded some seven or eight thousand."

The western part of the state was a wilderness, into which already one of the main streams of western emigration had begun to pour its restless settlers. The front of emigration at this time extended far beyond Elmira and Bath.

"In 1790 the State of New York, westward, from a meridian through Seneca Lake to the Canadian boundary was one huge county. Before 1812 that same region had been cut into seven." As late as 1810 there was a large extent of country in the northern part of the state where the population averaged less than two persons to the square mile, and at no place, except a strip lying on both banks of the Hudson and Mohawk rivers, did the population exceed eighteen to the square mile. The entire population of the state in 1800 numbered less than 600,000 (589,051), and such were the hardships endured by the settlers of the frontier, that many of them were barely able to keep themselves supplied with the means of subsistence. "Nothing (we are told) was as scarce as food; many a wayfarer was turned from the settlers' doors with the solemn assurance that they had not enough for themselves."

From a picture of the times, thus briefly sketched, we need not be surprised to learn that, except in a very few of the larger towns, no libraries had as yet been founded. In this primitive, restless, and unsettled condition of society, the public mind was not yet ripe for, nor, indeed, had it the leisure to devote to the higher aims of life and culture.

Previous to 1800, little attention had been paid to the establishment of libraries, and little care had been taken to keep or preserve their records. It is therefore with great difficulty that we are able to obtain reliable information concerning their early history. Not until nearly half a century later (1846) was the first creditable account of American libraries written by Herman Ludewig and printed in the *Serapeum*, a periodical published at Leipzig, Germany. When, in 1849, a Select Committee of Parliament desired to obtain information concerning the libraries in this country, our Secretary of State was obliged to reply "that, with every disposition to do so, the

Department finds that it has no means of gratifying the wishes of Her Majesty's government in this respect!" From the United States Bureau of Education's Special Report, on "Public Libraries in the United States (1876)", we learn (pt. 1, p. xvi) that "So far as is known, there were in 1776 twenty-nine public libraries [and here it should be noted that the word public is used in contradistinction to private] in the thirteen American colonies [or scarcely more than two to each colony], and they numbered altogether 45,623 volumes. In the year 1800 the number of libraries had increased to 49, and the number of volumes to about 80,000."

New York Society Library. 1700

As nearly as can be ascertained, there were in the State of New York in 1800 only fourteen libraries, of which nine have survived to the present day. Four of them only are of any considerable size. A brief sketch of these pioneers in the library field may prove interesting. First, in the order of their foundation comes the New York Society Library, founded in 1754. In that year an association of 140 gentlemen was formed under the name of the "New York, or City Library." More than half a century before, in 1700, one had been founded, known as "The Public Library" of New York. It prospered for some time and received by bequest in 1729 the books of the Rev. Dr. Millington, of Newington, England. This library was placed in the City Hall and was in charge of the Corporation of the City. At this time it numbered 1,642 volumes. It was the intention that it should be a lending library, from which the clergymen and gentlemen of the governments of New York, New Jersey, Pennsylvania, and Connecticut might borrow books. This was probably the earliest lending library in America; the Library Company of Philadelphia, founded by Franklin and characterized by him as the "Mother of all the North American subscription libraries," not having been organized until 1731, more than thirty years later. The City Library at the time the new Library association was organized was suffering from neglect and mismanagement. The trustees of the new association asked that the old library be turned over to the new organization. This was done, and the whole collection placed under their care in the City Hall. It was known as "The City Library," until 1772, when it received a charter from King George the Third in which it was named "The New York Society Library." The Revolutionary War soon followed, the books were scattered, and for fourteen years its work was suspended. Early in 1788 (February 18th) its charter was renewed, and active operations resumed. Five years later a building was

begun on Nassau Street, opposite the old Dutch Church next to the corner of Liberty Street. At this time the library is said to have contained 5,000 volumes. In 1800 it had grown to 6,000 volumes, or to nearly three times the size of the Columbia College Library of that time.

Its next home was at the corner of Leonard Street and Broadway where it was housed from 1840 – 1853. Since 1856 it has been in its present building at 109 University Place. Jewett, in his *Notices of Public Libraries* (1851), says that "there was at that time, in the Society Library a copy of Clarendon's *History of the Rebellion,* marked Public Library of New York, 1811 [an evident misprint for 1711]". Wishing to see this earliest relic of the first library established in this state, the present writer visited the Society Library, and learned to his deep regret, that it was no longer on its shelves. The librarian emeritus, at that time, Mr. Wentworth S. Butler, remembered to have seen it with the inscription "Ye Publick Library of New York, 1711," stamped on its side. However, a volume was shown which once belonged to the old library, and which from its local character may be considered even more interesting than the former. This was a copy of Bradford's *New York Gazette,* for 1726, the first newspaper printed in New York, and in it was this inscription: "A gift to the New York City Library, December 17, 1739." In 1800 the Society Library possessed 6,500 volumes, which had increased to 35,000 in 1850 (118,105 in 1926).*

Columbia College Library. 1757

The second library founded in the state was that of Columbia College. Its early history is nearly coeval with that of the college, which was first known as King's College and was founded in 1754. The Library early received the gift of two collections: that of Joseph Murray, of London, and that of the Rev. Dunscombe Bristowe, the latter containing about 1500 volumes. From bequests, gifts, and purchases, it had acquired a valuable collection of books, when on the 6th of April, 1776, the treasurer of the college was given six days' notice to vacate, in order that the premises might be converted into a military hospital. The books were stored in the City Hall and other places, but were subsequently scattered and disappeared entirely from sight, until about thirty years later, when some six or seven hundred volumes, together with as many more belonging to the Society Library, were discovered in a room in St. Paul's Chapel. No one, not even the sexton, was

*("The first paper published in the city was printed by William Bradford. It made its appearance October 16, 1725, and was entitled, The New York Gazette." — Isaiah Thomas, *History of Printing in America;* 2d ed., [Albany, 1874], vol. 1, p. 98.)

able to tell how or when they came there. In 1792 the legislature made a grant to the College for its library, and an addition, a large one for those days, was the result. In 1800 it had upon its shelves 2,249 volumes. In 1850 it contained 12,740 volumes (982,648, in 1926).

In addition to the Society Library and that of Columbia College there were several others, founded between 1774 and 1797. Most of these were connected with academies and seminaries. They were, with the dates of their foundation: Kingston Free Academy Library, 1774; Kingston School Library, No. 5, 1774; Erasmus Hall Academy Library, Flatbush, 1787; Saratoga County Law Library, Ballston, 1791; Montgomery Union School Library, 1791; Albany Institute Library, 1793; Canandaigua Academy Library, 1795; Lansingburg Academy Library, 1796; Oakwood Seminary Library, Union Springs, 1796; Hartwick Seminary Library, 1797.

It should be observed that all the libraries founded before 1800 belonged to a class known as proprietary libraries or those connected with educational institutions. We are told that these early libraries "seem to have been generally used by the local reading public, their stricter and limited adaptation to the use of the faculty and students having arisen with the growth of public lending libraries."

Libraries Founded From 1800 – 1824

As we direct our attention to the library progress made during the first quarter of the nineteenth century we shall see that public interest in libraries seems to receive a fresh impetus about once in every twenty-five years.

From the most reliable statistics available we learn that, from 1800 to 1824, 25 new libraries were founded in the state. Though not the earliest state library (several others of its kind having already been established) the New York State Library has become one of the largest and most liberally administered.

The most important libraries founded during this period, with dates of foundation, are: United States Military Academy, 1802; New York Historical Society, 1804; New York State Library, 1818; Apprentices' Library, New York City, 1820; New York Mercantile Association, 1820.

We have scarcely any detailed information concerning the status of New York libraries at the end of the first quarter of the 19th century; but we get a glimpse of them in an anniversary address delivered before the New York Lyceum of Natural History, by Dr. James E. DeKay, in February, 1826. He says: "The want of proper books to facilitate inquiries of a scientific nature has been long felt in this city; indeed it has frequently been asserted

that New York, in proportion to its population, contains fewer works in its public libraries than any other city in Europe or America. With a view of ascertaining the truth of this assertion, at least as far as our own country is concerned, we have taken some pains to procure the following comparative statement . . . *New York,* with a population of 170,000, possesses ten public libraries, containing 44,000 volumes; *Baltimore,* with a population of 70,000, has four public libraries, containing 30,000 volumes; *Philadelphia,* with a population of 160,000 possesses nineteen public libraries, containing 70,000 volumes; *Boston,* with a population of 60,000, possesses thirteen public libraries, containing 55,000 volumes."

Libraries Founded From 1824 – 1849

During the second quarter of the nineteenth century a new era in library development was inaugurated in New York state by the establishment of School District Libraries. It was a movement, far-reaching in its influence and one in which we see the germs of nearly every important phase that has since been emphasized in the library field, and much of which we, of the present day, are complaisantly accustomed to believe has been originated since 1876. So important was the School District Library Movement that its history and the results which followed, well merit a detailed description; especially, as the mid-century and centennial-year library awakenings were but the natural outcome of this earlier movement.

Prior to legislation in New York for the formation of School District Libraries, laws had been passed only in the interests of library associations, societies, and other quasi-public corporations. This had been done by granting them acts of incorporation. None of them was supported by public taxation. To New York is due the credit of first placing upon its statute book a law permitting corporate or municipal bodies, *i.e.*, school districts, to tax themselves for the purpose of forming and maintaining libraries for the free use of all their inhabitants. Library legislation, as shown by Mr. Fletcher in his little Manual, has naturally divided itself into several stages. In the earliest, as we have seen, the library was recognized only by acts incorporating library associations, societies, etc. Up to 1835 no law had been passed permitting taxation for library support.

In his message to the legislature, January, 1827, Governor De Witt Clinton made the first allusion we can find to the formation of tax-supported libraries, in the following terms: "Small and suitable collections of books and maps attached to our common schools . . . are worthy of our attention.

When it is understood that objects of this description enter into the very formation of our characters, control our destinies through life, protect the freedom and advance the glory of our country . . . let it be our pride, as it is our duty, to spare no exertion and to shrink from no expense in the promotion of a cause consecrated by religion and enjoined by patriotism."

But for his untimely death, the following year, his recommendation might have been further pressed upon the legislature, and earlier action taken. Three years later the attention of the legislature was a second time called to the matter, by Azariah C. Flagg, then Secretary of State and ex-officio Superintendent of Common Schools. Here the matter rested until 1834, when John A. Dix, then Superintendent of Common Schools, again renewed the recommendation in still more emphatic terms: — "If the inhabitants of school districts were authorized to lay a tax upon their property for the purpose of purchasing libraries for the use of the districts, such power might, with proper restrictions, become a most efficient instrument in diffusing useful knowledge, and in elevating the intellectual character of the people . . . A vast amount of useful information might in this manner be collected where it would be easily accessible, and its influence could hardly fail to be in the highest degree salutary, by furnishing the means of improvement to those who have finished their common school education, as well as to those who have not." We here see what is perhaps the first germ of the Adult Education idea, so strongly stressed at the present day.

Superintendent Dix recommended that the imposition of a tax for this purpose be made discretionary, and that the amount levied be limited to ten or fifteen dollars for the first year, and to five dollars annually thereafter. "So small a tax (he says in closing) could hardly be felt, in any case, by those on whom it would devolve to contribute it: and, as its imposition would be voluntary, it would be made only where its tendency would be to produce salutary effects."

The following year (1835) the law above recommended was passed allowing each district to levy a tax of twenty dollars for the first year for the purchase of a library and not more than ten dollars for each subsequent year. This law was taken advantage of by a few districts, but not so generally as was thought desirable.

In his Report for 1838, Superintendent Dix recommended that, instead of making the law compulsory, as seems to have been suggested by others, the sum of five dollars be paid from the income of the United States Deposit Fund to every district which should vote to purchase a library. In his report for the following year (1839) he seeks to impress more deeply the idea that

these libraries were founded upon the broadest principles. The impression seems to have become prevalent that they were intended only for the pupils of the schools. To meet and combat this opinion he says: — "It would be natural to suppose from their name, that these libraries were intended solely for the use of the schools, but they were not established with so narrow a design. They were recommended to the Legislature by the Superintendent of Common Schools, in the year 1834, 'for the benefit of those who have finished their common school education, as well as for those who have not.' They were designed as an instrument for elevating the intellectual condition of the whole people, by introducing into each school district collections of books, which should be accessible to all."

During the first three years, after the passage of the School District Library Law, only about 300 districts took advantage of its provisions. In April, 1838, following the suggestion of Superintendent Dix, a law was passed authorizing the annual payment of $55,000, from the income of the United States Deposit Fund to the school districts, to be expended by them for the purchase of libraries, upon condition that the districts would raise as much more for the same purpose. This law was to remain in force for three years, after which the districts might apply the money to the purchase of libraries or to the payment of teachers' wages at their discretion. This law, involving the principle of State aid, for the founding and support of libraries, gave so great an impulse to the movement that Superintendent Dix was able to say in his Report for 1839 that "several thousand libraries have been procured during the year 1839 by means of the fund distributed for that purpose, with the addition in numerous instances of money raised by voluntary taxation. The amount expended as shown by this Report was $94,937.52.

Superintendent Dix sounded the first note of apprehension and warning, in his Report for 1839, when he said: "During the next three years, many valuable volumes will be prepared for the formation of district libraries, and the obligation to purchase books will cease, at the very moment when perhaps it will be most desirable it should continue. The temptation to apply to the payment of teachers all moneys that can be obtained in order to reduce the rate of tuition is so strong, that many of the districts will probably appropriate the library money to that purpose, as soon as it ceases to be subject to the existing provision." How truly this prophecy was fulfilled, we shall see in the later history of these libraries. The money available for them at this time was about twenty cents a year for each child of school age, or of from five to sixteen years of age.

In 1843 another law was passed creating a special library fund for the purchase of school apparatus and the payment of teachers' wages under certain conditions. State aid had given such vitality and interest to the movement, that by 1843, or during a period of eight years, the number of volumes in these school libraries had risen to the enormous aggregate of nearly 875,000 volumes. Some idea of the extent of this growth may be realized, when we pause to consider that but a single one of the largest libraries in this country, at that time, contained more than 70,000 volumes. Other states had watched the experiment with great interest and hastened to enact similar laws. Massachusetts and Michigan were the first in 1837; Connecticut followed in 1839; Rhode Island and Iowa in 1840; Indiana, 1841; Maine, 1844; Ohio, 1847; Wisconsin, in its constitution, in 1848; Missouri, 1853; and California in 1866.

Recognizing one of the weak points of the system, Mr. Henry Barnard, at that time Superintendent of Common Schools in Connecticut, in his Report for 1841, made some recommendations which the later history of libraries in this country has proved to have been supremely wise. His recommendation was: "That the entire sum appropriated to each town be expended under the direction of the town officer, and the books be placed in as many cases as there are districts, each case to pass in succession through all the districts in the town. Each district will thus, at any one time, have access to as many books as under the other plan (the school district library plan) and in the end, to all the books in the several libraries. This increases the variety by the number of districts, and keeps up the novelty by a constant supply of new authors. By local regulations, the cases can be returned to the town superintendent, at certain stated periods, for inspection, as well as for exchange, and thus the books will be more likely to [be] preserved, and any damage or loss assessed to the proper district." Attention will later be called to this recommendation.

(To be concluded)

MARY CASSATT

PRINT-MAKER

MARY CASSATT'S talent was first recognized in France, where she lived for about half a century, until her death this year. Realization of her prophet-ship came much later in this country, although she was one of the painters chosen to decorate the Woman's Building at the Chicago Exposition of 1893. As an etcher she waited still longer for recognition in her own land, — that is, recognition from more than a few. Even to-day, the record of exhibitions of her prints is not long. Still, as far back as 1892, Frank Leslie's Monthly (which one would hardly have thought a vehicle for such material) reproduced five of her prints. Before that, that astute collector, the late S. P. Avery, ahead of his time in more than one instance, was already collecting her prints, including drypoints, color prints, and her only attempt in lithography. These form part of his remarkable collection of 19th century prints, which he gave to The New York Public Library in 1900. They have now been arranged, in the Print Gallery of the Library (Room 321), in a memorial exhibition.

In these prints, Mary Cassatt stands out primarily as a depicter of childhood. Not in the all-too-common attitude of a purveyor of maudlin sentimentality. Her children play no part to tickle the fancy in saccharine idealization of familiar happenings in infant life. They simply live, seen with a keen and sympathetic eye by one who never allowed her subject to stand in the way of artistic and technical considerations. For that very reason her children live. Her attitude was sincere and sane; robustness and restraint were finely balanced in her work, without any appeal to the popular liking for prettiness. Her way of doing the thing is straightforward, her expression succinct. Elaboration she did not practice; she stopped when she had said what was necessary. The clear, firm, bare line is full of a quivering and significant freedom. The outline of a little bare body will be indicated by a drypoint line of varying thickness and varying direction, — outline, practically, without shading — yet replete with subtle modeling. Behind the technique there is a rather intangible element that brings one into direct and intimate contact with the sheer human side of the matter. Beyond the simple and knowing presentation of the physical side of the child, as a French writer has put it, "she has seized the instinctive gesture of a life still stammering, opening its naïve, astonished eyes to the light. The slightest instinctive, animal movement has been observed . . . The slightest passing

"THE STOCKING"
DRYPOINT BY MARY CASSATT
(In the print collection of The New York Public Library)

expression has been noted, fixed with a rare happiness, an easy knowledge." And Miss E. L. Cary wrote: "The eyes, in particular, questioning, exultant, wondering, reflective or merry, betray a penetrating and subtle insight into the dawning personality under observation."

These drypoints, in the present exhibition, may be studied in successive states, in some cases. A similar study of progressive proofs may be made of some of the color prints shown here. These earliest attempts in color aquatint by an American remain probably our most noteworthy achievement in that field. In a letter received from her in 1906 she wrote: "I drew the outline in drypoint and laid on a grain where color was to be applied, then colored 'à la poupée.' [Poupée, — the little rag 'doll' with which the color is applied to the plate, the whole print being produced in one printing.] I was entirely ignorant of the method when I began, and as all the plates were colored by me I varied sometimes the manner of applying the color. The set of ten plates was done with the intention of attempting an imitation of Japanese methods. Of course, I abandoned that somewhat after the first plate and tried more for atmosphere." The color, produced on a light fine aquatint grain, is generally in flat tones, as in the Japanese prototypes. But occasionally it deepens into a mottled solidity and richness. In the plate of a woman playing a banjo (not part of the set of which she wrote) it assumes an impasto effect in the blue of the wide sleeves.

When one wanders back to her drypoint child subjects, there is opportunity for choice. One may find her work uneven, if only in the matter of appeal. It is almost inevitable, when studies are put on copper and reproduced in print, instead of being hidden in the sketch-book, that some will fall below the average, if not of accomplishment, at least of attraction for the beholder. But in her best plates, and in those in which she has most clearly led us into the soul of the child, she easily steps into the first rank of the artists who have been attracted by her subjects. Indeed, in her special field, in which her black-and-white art found its finest, most sensitive and richest expression, not a few believe that she holds first place.

F. W.

NEWS OF THE MONTH

GIFTS

DURING the month of October, 1926, there were received as gifts 5,006 volumes, 11,057 pamphlets, 26 maps, and 18 prints. Some interesting and important items were the following:

From Mr. Charles C. Burlingham came a copy of his work, "Francis Lewis, one of the New York Signers of the Declaration of Independence; read at the Sesqui-Centennial International Exposition in Philadelphia, Sept. 20, 1926." From Mr. Luther A. Brewer, Cedar Rapids, Iowa, came a copy (one of 300 privately printed) of his work, "Wanderings in London," Cedar Rapids, Iowa, Christmas, 1925. Miss Jennie L. Cline gave the Library a copy of "Amphora, a second collection of prose and verse chosen by the Editor of the Bibelot," Portland, 1926; and a copy of "Sonnets of the Saints," by Thomas S. Jones, Jr., Portland, 1926 — both printed in limited editions. From Major-General A. G. Wauchope, London, came volumes two and three of his "History of the Black Watch (Royal Highlanders) in the Great War, 1914–1918," London, 1926. Mrs. Anna Woerishoffer, Lucerne, Switzerland, gave the Library a copy of "Der Wiegendruck im Kartenbild," by Dr. Robert Teichl, Leipzig, 1926. From the Windsor Press, San Francisco, came a copy of "William Caxton, Abridgement of the Biography by William Blades, now printed by The Brothers Johnson at the Windsor Press," San Francisco, 1926 (No. 42 of 200 copies printed). From Mrs. A. L. Pearson came the seven volumes of the "History of Freemasonry," by Albert G. Mackey and William R. Singleton, c. 1898. From Williams College, Williamstown, Mass., came a copy of "Williams College in the World War," 1926. From Charles Scribner's Sons came Vols. 1 and 2 of "Edwin Austin Abbey, Royal Academician, the Record of his Life and Work," by E. V. Lucas, New York, 1921.

Collections were received from the following: Dr. Edward W. Bemis (134 volumes, 9 pamphlets and 22 periodicals); Dr. Fortunato Carranza, Lima, Peru (21 pamphlets relating to Peru); Mr. Charles Donn (14 volumes, 1 pamphlet, and 356 periodicals); Mr. Frank Downs, Bristol, Conn., (three issues of "The Nome Daily Chronicle," one of the "Nome Gold Digger," and one of the "Nome Weekly News," all of the year 1900); Mrs. J. Kahn (17 volumes); Mr. Clement K. Marmor (23 volumes and 5 pamphlets); Mr. John Henry Parr (28 volumes and 1 pamphlet); Miss A. R. Salter, Glenridge, N. J. (80 volumes); Mrs. H. F. Scharles (125

volumes); Miss Selma Sterne (34 volumes); Mr. Mark Soliterman (117 volumes, 133 pamphlets, 70 periodicals); Mr. Nathan Wendell (12 volumes); and Mrs. B. Wolfson (116 volumes, 78 pamphlets, and 57 periodicals).

From Dr. I. Sossnitz came a collection of manuscripts of some of the unpublished works, including the autobiography, of his father, the late Joseph J. L. Sossnitz.

Mr. Raymond Nold gave the Library a collection of vocal and instrumental music, including "Messe de Requiem," by Saint Saëns, and comprising 63 pamphlets.

The following additions to the Library's Print Collection were received through gift:

From Mr. Frederick K. Detwiller came his etching, "Building the nave, Cathedral of St. John The Divine." From the Estate of Isaac J. Greenwood came 15 volumes, and 1 pamphlet relating to art, and 17 portfolios containing etchings, engravings, lithographs, etc. Mrs. Ernest Haskell, Croton-on-Hudson, gave the Library five engravings, "Arabella" done in the "flick" method in 1925, by Ernest Haskell. From Mr. Philip Little, MacMahon Island, Maine, came four of his etchings — "The Coming Storm or Destroyers going to Sea, 1917," "Smelt Fisherman, 1915," "Fishermen and Smelters, 1915," and "Chinese Junks, 1926." The Misses Welcher, Hartford, Conn., gave an etching by Charles Waltner after a painting by Munkácsy, also a lithograph and an engraving.

ADDITIONS AND USE OF THE LIBRARY IN OCTOBER, 1926

DURING the month of October, 1926, there were received at the Library 24,286 volumes and 13,634 pamphlets. (These include the additions to both Reference and Circulation Departments.) The total number of readers recorded in the Central Building was 144,050. They consulted 316,221 volumes. Visitors to the building numbered 306,548.

NEW PERIODICALS

Allahabad farmer. Allahabad, India. Quarterly.
Published by the Allahabad Agricultural Institute.

American Institute quarterly. New York. Quarterly.
Published by the American Institute of the City of New York.

American shoemaking. Boston. Weekly.

Antioquia (department), Colombia. — Casa de Menores y Escuela de Trabajo. Estudio y trabajo. Medellin, Antioquia, Colombia. Monthly.

Architekten. København. Weekly.

Bastelbriefe der "Drahtlosen." Düsseldorf, Germany. Monthly.

Black and blue jay. Baltimore, Md. 7 times a year.
Published by the Johns Hopkins University.

Boston Chronicle. Boston. Weekly.

British Museum quarterly. London. Quarterly.

Bulletin of Spanish studies. Liverpool. Quarterly.

Bureau voor Ekonomische en Sociale Dokumentatie. Systematische katalogus van tijdschrift en dagbladartikelen. Weltevreden, Java. Monthly.

Canadian defence quarterly. Ottawa, Canada. Quarterly.

Canterbury Chamber of Commerce. Monthly bulletin. Christchurch, Canterbury, N. Z. Monthly.

Citizen. Oakland, Cal. Monthly.

Civilización. Barranquilla, Colombia. Semimonthly.

Common room. London. Quarterly.
Published by the Educational Settlements Association.

Cuba. — Secretaría de Instrucción Pública y Bellas Artes. Boletín. Habana, Cuba. Irregular.

Deutsche Juristen-Zeitung. Berlin. Semimonthly.

Deutsche Vierteljahrsschrift für Literaturwissenschaft und Geistesgeschichte. Halle, Germany. Quarterly.

Display topics. New York. Monthly.

Divona. Cahors, France. Monthly.

Drawing and design. London. Monthly.

Electrical age for women. London. Quarterly.
Organ of the Electrical Association for Women.

Electro-farming. London. Monthly.

Az **Ember.** New York. Weekly.

Esportatore italiano. Milano. Monthly.
Published by the Istituto nazionale per l'espansione economica italiana all' estero.

Das **Farbige** Strassenbild. Leipzig. Germany. Quarterly.

Fifth Avenue Association, Inc. Bulletin. New York. Monthly.

Forschungen und Fortschritte. Berlin. Semi-monthly.

Gemeindeblatt der jüdischen Gemeinde zu Berlin. Berlin. Monthly.

Das **Glas.** Berlin. Monthly.

High hat. New York. Monthly.

Holliston owl talks. Norwood, Mass. Monthly.

Illustrated milliner. New York. Monthly.

Der **Industrieangestellte.** Wien. Monthly.

Internationaler Bekleidungsarbeiter. Berlin. Irregular.
Published by the Internationaler Propagandakomitee der revolutionären Bekleidungsarbeiter.

Internationales Bauarbeiter-Bulletin. Berlin. Irregular.
Published by the Internationaler Propagandakomitee der revolutionären Bauarbeiter.

Istituto statistico-economico. Bollettino. Trieste, Italy. Monthly.

Japan. — Embassy; Commercial Secretary. Monthly commercial cable news of Japan. New York. Monthly.

Jewish times. Baltimore. Weekly.

Koelner sozialpolitische Vierteljahresschrift. Köln, Germany. Quarterly.
Published by the Forschungsinstitut für Sozialwissenschaften in Köln.

Labor world — Monde ouvrier. Montreal. Weekly.

League of Nations. — Financial Committee. Report to the Council on the work of the ...session. Geneva, Switzerland. Irregular.

Life Insurance Sales Research Bureau. Monthly survey of life insurance sales. Hartford, Conn. Monthly.

—— Report. Hartford, Conn. Irregular.

El **Luzero.** New York. Monthly.

La Mailleraye. Paris. Monthly.

Muelheim a. d. Ruhr, Germany. — Statistisches Amt. Statistische Vierteljahresberichte. Mülheim, Germany. Quarterly.

Mundo paraguayo. Asunción. Monthly.

N. C. W. news. London. Monthly.
Published by the National Council of Women of Great Britain.

Nature healer. Baghbazar, Calcutta. Monthly.

New Zealand Labour Party Information Bureau. [Slips.] Auckland, N. Z. Monthly.

Pan Pacific progress. Los Angeles. Monthly.

Pareceres. San Salvador. Semi-monthly.

Patent and trade mark decisions. Buenos Aires. Monthly.

Philatelic journal of India. Lahore, India. Monthly.

Phonograph monthly review. Boston, Mass. Monthly.

Photographische Industrie. Berlin. Weekly.
Organ of the Union deutsche Verlagsgesellschaft Zweigniederlassung, Berlin.

Poland. — Sejm: Bibliothèque. Exposé sommaire des travaux législatifs de la Diète et du Sénat polonais. Warsaw, Poland. Irregular.

Progreso. Medellin, Colombia. Fortnightly.

Public business. Washington, D. C. Monthly.
Published by the Better Government League.

Quality market. Leipzig, Germany. Weekly.

Quena. Buenos Aires. Monthly.
Published by the Conservatorio de música de Buenos Aires.

Radiohändler. Berlin. Semi-monthly.

Reconciliation. London. Monthly.

Religious press digest. Milwaukee. Monthly.

Repertorio histórico. Medellin, Antioquia, Colombia. Monthly.
Published by the Academia antioqueña de historia.

Revista financiera, bursátil y minera. Santiago de Chile, Chile. Monthly.

Revista universitaria. Cuzco, Peru. Quarterly.
Published by the Universidad del Cuzco.

Revue de géologie. Liége. Monthly.

Revuo internaciona. Leipzig. Monthly.
Organ of Laboristal Ido-unione.

Santo Domingo (R.D.). — Cámara de Comercio, Industria y Agricultura. Boletín oficial. Santo Domingo. Monthly.

Southern contractor. Memphis, Tenn. Weekly.

Southern Rhodesia. — Legislative Assembly. Debates. Salisbury, Rhodesia. Irregular.

Square deal. New York. Monthly.

Stained Glass Association of America. The Bulletin. Chicago. Monthly.

Technique des travaux. Liége. Monthly.

Texas. — Fire Marshal's Office. Safeguarding Texas against fire. Austin. Monthly.

Theta news of Theta Kappa Nu Fraternity. Menasha, Wis. Quarterly.

University of California. — Agriculture College: Agricultural Extension Service. Circular. Berkeley, Cal. Quarterly.

University of Nebraska. — Extension Division. Nebraska studies in business. Lincoln, Neb. Monthly.

Virginia digest. Norton, Va. Weekly.

Virginia municipal review. Richmond, Va. Monthly.

La **Voie** nouvelle. Paris. Monthly.

Volja. Belgrade, Jugoslavia. Monthly.

Worker. London. Weekly.
Published by the National Minority Movement.

Zeitschrift für Geophysik. Braunschweig, Germany. Bi-monthly.

Zentralblatt für die gesamte Radiologie. Berlin. Semi-monthly.

Zuerich. — Universität: Psychologisches Institut. Veröffentlichungen. Zürich, Switzerland. Irregular.

THE S. P. AVERY COLLECTION OF PRINTS

ADDITIONS, BY DONATION, FROM THE MISSES WELCHER (EMMA AVERY, ALICE LEE, AND AMY OGDEN)

COMPILED BY

ARTHUR BONN
Print Room

In 1900 the elder Samuel Putnam Avery gave to The New York Public Library his collection of nineteenth century prints, chiefly French, and mainly etchings and lithographs. Thus was established the Library's Print Room. Mr. Avery added to the collection during his lifetime, and after his death in 1904 his son, Samuel Putnam, carried on the interest in the work. The younger Avery died in 1920. Since that time his nieces, the Misses Emma Avery, Alice Lee, and Amy Ogden Welcher, have sent to the Library, for the Avery Collection, a number of prints and material that had remained in the possession of the family. These recent additions to the collection are listed herewith.

In the present list appear not only etchings and other prints new to the Avery Collection or new in the state here represented, but also original drawings as well as letters. These latter, as well as the written notes on more than one of the prints, emphasize the personal relations that existed between the elder Avery and a number of the artists whose prints he collected. It all adds to the value and interest of the collection as a whole.

The record of the Avery Collection is given in its *Handbook* (1901), *Supplement to the Handbook, 1901-1920* (1921), and the present list. The Avery Collection figures also in the lists of "Recent Additions to the Print Collection," published from time to time in the *Bulletin*. F. W.

FRENCH, ETC.

Alix, Pierre-Michel:
Charles Linné, after Roslin. (Portalis & Beraldi 39.) Aquatint in color. **MEZAC**

Bellay, Charles:
Paul Baudry. (Ber. 24.) Etching. **MEZAC**

Bonnat, Léon:
M. Thiers. (Ber. 2, 2nd state.) Etching. **MEZAC**

Bracquemond, Félix:
Edmond de Goncourt. (Ber. 54, 8th state.) Etching. † **MEZAC**

Le vieux coq. (Ber. 222, 4th state.) Etching. **MEZAC**
With seven lines of verse added in pen and ink by the artist in the lower margin, "1st November 1882."

La Rixe. After Meissonier. (Ber. 349, 7th state.) Etching. †† **MEZAC**
Proof retouched by Meissonier.

French, etc., continued.

Bracquemond, Félix, continued:

Diplôme de la Société dite des Jing-lar. In color. (Ber. 528.) Etching. **MEZAC**

Soleil levant. Water-color drawing, for one of "Service Parisien (de la maison Haviland)." (Ber. 573.) **MEZAC**

Letter to Samuel P. Avery. 1886. **MEZAC**

Letter to George A. Lucas. Jan. 29, 1880. **MEZAC**

Browne, Henriette:

La Robe de Joseph, d'après Bida. (Ber. 12b.) Etching. † **MEZAC**

La Confession, d'après Bida. (Ber. 9.) Etching. † **MEZAC**

Cabanel, Alexandre:

[Profile of a young woman, facing left.] "Etude du tableau d'Othello." Crayon drawing. Gray paper. **MEZAC**

[Bearded man with cap, dir. and looking to left.] "Etude du tableau d'Othello." Crayon drawing. Pink paper. **MEZAC**

Chauvel, Th.:

L'Orage, d'après Diaz. (Ber. 90.) Etching. † **MEZAC**

Dagnan-Bouveret, P. A. J.:

Sketch for "An Accident" Salon 1880. Pencil drawing. **MEZAC**

Two male figures from the above picture. Pencil drawing. **MEZAC**

Letter to Samuel P. Avery, June 15, 1880. **MEZAC**

Daubigny, C. F.:

La Poule et ses poussins. (Henriet 88.) Etching. **MEZAC**

"Westminster Palace, London. Drawn on the spot by Daubigny in 1866." (Henriet C.) Pencil drawing. † **MEZAC**

David, Pierre-Jean, called David d'Angers:

August Wilhelm von Schlegel. Profile to left. Pencil drawing. **MEZAC**

Delâtre, Auguste:

Business card. *Imprimerie / Artistique / 102 / RUE LEPIC / Paris Montmartre / Aug te / DELATRE & son fils.* (Ber. [107A.]) Etching. **MEZAC**

"Ma dernière planche" (Moon over trees). (Ber. [124–128.]) Mezzotint. **MEZAC**

Eaux-fortes. Pointes Seches. Vernis Mou / Par Aug. Delâtre. Collection S. P. Avery. (Ber. [129–134.]) Etching. **MEZAC**

Letter to George A. Lucas, Feb. 23, 1891. **MEZAC**

Delâtre, Eugène:

Business card. Sign bearing name, *EUG. DELATRE 102 Rue Lepic / PARIS Montmartre.* carried by a soldier. Etching. **MEZAC**

Delâtre, Eugène, continued.

Auguste Delâtre. Wood engraving, in color. **MEZAC**

Detaille, Édouard:

Essais d'eau-forte. (Ber. [13.]) Etching. **MEZAC**

Doré, Gustave:

"Flower girl, Drury Lane, London, 1880. Souvenir de ma rencontre à Londres avec M. Avery." (Ber. [B.]) Pen-and-ink drawing. **MEZAC**

Édelinck, Gérard:

Desjardins. Martin Van den Bogaert. (R. D. 182, 4th state.) Line engraving. † **MEZAC**

Flameng, Léopold:

Léopold Flameng. After François Flameng. (Ber. [301½.]) Etching. **MEZAC**

Horsefair. After Rosa Bonheur. Remarque. (Ber. [730-b.]) Etching. **MEZAC**

Gavarni:

Young woman standing at entrance to house. Sign above at left: "LOGING par Singler Gent." Below at right "Gavarni." (M. & B.-[A.]) Water color drawing. **MEZAD**

Gérôme, Jean Léon:

Le Fumeur égyptien. (Ber. 1.) Etching. **MEZAC**

Smoker, in oriental dress, seated, with long stem pipe in right hand. (Ber. [A.]) Pencil drawing. **MEZAC**

Goeneutte, Norbert:

EAUX FORTES / ET POINTES SÈCHES / PAR NORBERT GOENEUTTE / COLLECTION / S. P. AVERY JANVIER 1889. (109b.) Etching. **MEZAC**

Portrait of the artist. "POUR MR AVERY NORBERT GOENEUTTE/ PARIS AVRIL 1888." Crayon drawing. **MEZAC**

Letter, dated Dec., 1888, concerning S. P. Avery's collection of this artist's prints. **MEZAC**

Guerard, Henri:

Whistler. Remarque: portrait of Guerard. (Ber. 15. 4th state.) Etching. **MEZAC**

Portrait of the artist, seen from behind, at work on etching plate. "Offert á Mr. S. P. Avery, H. Guérard." (Ber. [A.]) Pencil and wash drawing. **MEZAC**

Pen-and-ink note on translucent paper, bearing a design, stating that the collection of his etchings owned by Mr. Avery "Is now complete." "Paris, Jan. 20, 1889." **MEZAC**

French, continued.

Jacque, Charles:

Les petites maisons Kercassier. (Guiffrey, 233, 1st state. Ser. A.) Etching. **MEZAC**

Letter, in French, but beginning "My dear" relating to "une affaire sémi-artisto-agricole" which "runs through my head for the next Salon." It is to be a "pendant to the Labourage nivernais of Mlle Rose qu'a du Bonheur." Further on the letter says: "On Dec. 15 you and M. de Viel-Castel will receive the first part of a series of etchings which I am publishing." **MEZAC**

Jacquemart, Jules:

Famille Rose Japonaise. Design for plate 7 in Jacquemart's Histoire de la porcelaine, 1860. (Gonse 38.) Water-color drawing, on vellum. **MEZAC**

Théophile Gautier. (Gonse 375, 2nd state.) Etching. **MEZAC**

La Joconde. After Da Vinci. (Gonse 393, 1st state.) Etching. **MEZAC**

Chinese and Japanese objects. (Gonse [C.]) Pen-and-ink drawing. **MEZAC**

Lalanne, Maxime:

Un Village de la Bourgone. (108) Etching. **MEZAC**

Left: "Composition." Right: "A Monsieur Samuel Avery / Souvenir cordial/ Maxime Lalanne." Pencil drawing. **MEZAC**

Left: "L'oude zyds Kolk / Amsterdam / Maxime Lalanne / pour La Hollande à vol- d'oiseau, page 240." Right: "Amsterdam 17 jul 79." Pencil drawing. **MEZAC**

Lefebvre, Jules:

"Adieu Mignon!!!... Jules Lefebvre, Paris 7 Juin 1878." (Ber. [A.]) Pen and ink drawing. **MEZAC**

Legros, Alphonse:

Auguste Delâtre. (M. 19, 2nd state.) Etching. **MEZAC**

Thomas Carlyle. (M. 34, 3rd state.) Etching. † **MEZAC**

M., C.:

Scrap-book containing 19 landscape drawings, mainly scenes in Switzerland, mostly dated 1837; one 1834; one 1835. Original drawings. Pencil. **MEZAC**

"Bound by Thouvenin about 1835" in pencil on inside of cover.

Mathey-Doret, Armand:

Giovanna Degli Albizzi. After Ghirlandaio. Remarque: Portrait of Ghirlandaio. (Ber. [15.]) Etching. † **MEZAC**

Meissonier, Ernest:

Le Grand Fumeur. *Meissonier 1843.* (Ber. 13.) Etching. **MEZAC**

Les Reîtres. (Ber. 15.) Etching. **MEZAC**

Meryon, Charles:

Le Stryge. (Delteil 23, 4th state.) Etching, on green paper. **MEZAC**

Porporati, Carlo Antonio:

Venus caressing Cupid. After P. Battoni. (Apell 5, 2nd state.) Line engraving. † **MEZAC**

Raffaëlli, Jean François:

Le Chiffonnier éreinté. (Delteil 3, 3rd state.) Etching. **MEZAC**

Raffaëlli. Portrait by himself. (Delteil 7, 2nd state.) Etching. **MEZAC**

Éventail aux Oeillets. (Delteil 52, 3rd state.) Etching. **MEZAC**

Rajon: Paul:

Félix Bracquemond. (Holding vial of acid.) (Ber. 147, 2nd state.) Etching. **MEZAC**

Félix Bracquemond. (Ber. 148, 3rd state.) (p. 163.) Etching. **MEZAC**

Susanna Rose. (Ber. 148, p. 165.) Etching. **MEZAC**

Whistler. (Ber. [A], p. 167.) Reproduction of drawing. **MEZAC**

Mary Gonse (?). (Ber. [D], p. 167.) Reproduction of drawing. **MEZAC**

Letter to Mr. S. P. Avery, regarding 35 proofs of etchings by Whistler owned by a friend. He asks Mr. Avery to stop at his [Rajon's] address and select what he wants. **MEZAC**

Rousseau, Théodore:

Chênes de Roche. (Ber. 4, 1st state.) counterproof. Etching. **MEZAC**

Sirouy, Achille:

Le Duel après le bal masqué, d'après Gérôme. Signed by both artists. (Ber. [22.]) Lithograph. †† **MEZAD**

Trouvain, Antoine:

Jean Jouvenet. (Le Blanc 13.) Line engraving. **MEZAC**

Waltner, Charles-Albert:

Le Christ devant Pilate, d'après Munkacsy. Remarque proof. (Portraits of the two artists.) Signed by both artists, and with a dedication line in pencil to Mr. Avery by Munkacsy, 1883. (Ber. 103 [b.]) Etching. †† **MEZAC**

DUTCH AND GERMAN

Israels, Isaac:

Josef Israels. Left: "Drawn by Isaac Israels;" right: "Josef Israels with his compliments to Mr. Avery, 1889," 12½ × 10½. (Hubert [A.]) Charcoal drawing. **MEZAI**

Dutch and German, continued.

Israels, Josef:

"Orphéline faisant de linge," 2 × 1½. (Hubert [B.]) Pen and ink drawing. **MEZAI**

Stumbling old man. (Hubert 33.) Etching. **MEZAI**

Winter voll in het leven. (Winter also in life.) 1890. 6 × 8¾. (Hubert [38.]) Lithograph (after Israels). **MEZAI**

Leys, Henri:

Les Archers. (Ber. 10.) Etching. **MEZAI**

Mueller, Johann Gotthard von:

The Battle at Bunker's Hill, near Boston, June 17th, 1775. London, 1798. After John Trumbull. (Apell 15, 6th state.) Line engraving. †† **MEZAF**

Neer, Aart van der (?):

"View of Harlem by V. der Neer." Drawing. **MEZAI**

Noorde, Cornelis van (?):

"Gezigt op Harme-Janfe's-Veld, nade Pape-Tooren & binnen Haarlem." Below right: "C. V. Noorde, ad viv: fe: 1763." On mount underneath drawing, "From the Uden collection." Drawing. **MEZAI**

Harbor scene, dock at left with row of trees and several figures moving about, three-masted vessel at right, smaller boats in distance. On mount underneath drawing, "In the collection of V. V. Vinne 58," On back of drawing in ink, "C. V. Noorde, 1756." Drawing. **MEZAI**

Velde, J. van de (?):

Winter scene, figures walking about in center, ship at left, house at right. "Original drawing by J. v. der Velde, 1760." **MEZAI**

BRITISH

Cruikshank, George:

Business card of *SAMUEL P. AVERY. / FINE ART ROOM. / 88 Fifth Avenue — Near the Fourteenth Street — New York. / Designed & Etched / by / George Cruikshank / Age 81 Septr. 27th 1873.* (Douglas 1451.) Etching. **MEZAM**

Haden, Sir Francis Seymour:

Twickenham Church. (Harrington 107, 1st state.) Etching. **MEZAM**

Letter to S. P. Avery, dated May 26, 1892. **MEZAM**

Heath, James:

General Washington. Full length. After Stuart. (LeBlanc 26; Hart 285a.) Line engraving. † **MEZAM**

Hollis, George:

St. Mark's Place, Venice. (Moonlight.) After J. M. W. Turner. Line engraving. †† **MEZAM**

P., J. W. [Monogram]:

"Roslin Castle. Dec. 25, 1873, J. W. P." Pencil drawing. **MEZAM**

Turner, Charles:

Mr. Tomkins. After Reynolds. (Whitman 561, 2nd state.) Mezzotint. **MEZAM**

UNITED STATES

Casilear, J. W.:

A Sibyl. After Daniel Huntington. (Baker, p. 26.) (American Art Union, 1847.) Line engraving. **MEZAP**

Cassatt, Mary:

La caresse. (11b.) Dry-point. **MEZAP**

[Mother holding baby in her arms.] Signed, "Mary Cassatt." Blue paper. Drawing. **MEZAP**

[Mother holding child on her lap.] Signed, "Mr. Avery with the compliments of Mary Cassatt, Jany. '91 Paris." Drawing. **MEZAP**

Darley, F. O. C.:

"The village blacksmith." Water color drawing. **MEZAP**

Halpin, Frederick:

Asher Brown Durand. (Baker, p. 80.) Line engraving. **MEZAP**

John Frederick Kensett. (Baker, p. 80.) Line engraving. **MEZAP**

Humphrys, W.:

Sancho and the Duchess. After C. R. Leslie. (D. McN. S. 1474 E.) Line engraving. † **MEZAP**

Maverick, Peter:

BUNKER'S HILL. / P. Maverick sc. Key to engraving after the painting by Trumbull. (Fielding 1032A.) Line engraving. **MEZAP**

Peale, Rembrandt:

George Washington, after Rembrandt Peale. Lithograph. † **MEZAR**

The portrait with the stone border.

Pesoa, Isaac G.:

Scrap-book containing 159 specimens of his work. Binder's title: "Isaac G. Pesva. Born 1833. Died 1901. (Worked in the office of S. P. Avery 1847–1867.)" Wood engravings. **MEZAP**

West, Benjamin:

Jacob and Laban. Drawing. **MEZAP**

JEWISH LIFE IN ORIENTAL COUNTRIES

THIS exhibition was arranged with the view of offering an opportunity to the public to become acquainted with some of the manuscripts, rare books and early editions of works written by Jews or about Jews of the Oriental countries. It was opened on Monday, March 30, 1926, and will close December 31.

In recent years American libraries have come into possession of important material and literary documents on this subject.

The resources of the libraries of the Jewish Theological Seminary of America, New York, the Hebrew Union College Library, Cincinnati, O., Dropsie College for Hebrew and Cognate Learning, Philadelphia, Pa., as well as those of The New York Public Library were drawn upon for this purpose. Some of the items were procured from private collectors. Characteristic groups of Oriental Jews and their various sects are represented by some precious objects of their native literature. Jewish rites and ceremonies as they vary in different Oriental countries are strikingly brought out in the rare manuscripts and printed editions of their liturgies. The various dialects employed by Oriental Jews as media for literary expression are striking. They illustrate the polyglot character of Jewish literature. However, a common bond — the use of Hebrew characters for their script — unites them all.

The Library was fortunate to have had the help of Dr. Cyrus Adler, President of the Dropsie College, Philadelphia, Pa., and of Mr. Adolph S. Oko, Librarian of the Hebrew Union College, Cincinnati, O. But the success of the exhibition is largely due to the practical aid generously given by Prof. Alexander Marx, the genial librarian of the Jewish Theological Seminary of America.

The collection drawn upon for each individual item is indicated below the entry for that item. A list of the phrases used in this connection follows:

Adler Collection — Jewish Theological Seminary, New York City.
American Bible Society Collection — The New York Public Library.
Amram Collection — Dropsie College, Philadelphia, Pa.
HUC — Hebrew Union College, Cincinnati, Ohio.
JTS — Jewish Theological Seminary General Collection.
Lenox Collection — The New York Public Library.
NYPL — The New York Public Library General Collection.
Schechter Collection — Jewish Theological Seminary.
Schiff Collection — The New York Public Library.
Sulzberger Collection — Jewish Theological Seminary.

A FEW IMPORTANT ARTICLES ON THE EXHIBITION

Berman, Harold. The Jewish exhibit at The New York Public Library. (Jewish forum, v. 9, July, 1926, p. 267–269.)

Cohen, Zvi.
ביכער אויסשטעלונג פון אריענטאלען אידישן לעבען. (דאס אידישע פאלק,
v. 18, no. 21, June 4, 1926, p. 11.)

Coralnik, Abraham.
אין א קליין חדריל. (דער טאג,
v. 13, no. 4176, May 16, 1926, p. 11.)

Exhibition of Hebraica and Judaica at The New York Public Library. (American Hebrew, v. 118, April 2, 1926, p. 701.)

Hurwitz, Maximilian. The wandering Torah. (Jewish tribune, April 16, 1926, p. 3, 19.)

Ish-Kishor, Judith. The 'twice-wonderful' books. (Jewish tribune, May 7, 1926, p. 60.)

Marx, Alexander. The books and manuscripts of the Seminary Library in the exhibition of The New York Public Library. (United Synagogue recorder, v. 6, no. 3, June, 1926, p. 19–21.)
Reprinted in *Reform advocate,* May 15, 1926.

Miller, Samuel.
שעה אחת של קורת רוח. (אפריון,
v. 3, no. 10, 1926, p. 242–245.)

Rare Jewish manuscripts exhibited at The New York Public Library. (Jewish tribune, April 2, 1926, p. 17.)

Rivkind, Isaac.
אור ממזרח. (הדאר,
v. 6, p. 493–495, 510.)

Rivlin, Moses.
די אויסשטעלונג פון אלטע אידישע מאנוס־קריפטען אין דער ליבערערי.
(Jewish morning journal, v. 25, no. 7462, April 16, 1926, p. 2.)

Senior, Joseph. Books of long ago. (Young Judaean, v. 17, March, 1926, p. 5–6.)

Steinman, A. D.
א צימער אין ניו יארק וואו מען זעהט ווי אידען האבען געלעבט מיט הונדערטער יאהרען צוריק (דער טאג,
v. 13, no. 4340, Oct. 30, 1926, p. 5.)

Story of Jews told in ancient documents. (New York Times, Sunday, April 4, 1926.)

THE GENIZAH AND SOME OF ITS FRAGMENTS

A **Fragment** of the Hebrew text of Ecclesiasticus, comprising chapters VII: 29-XII: 1. From the Genizah.
See E. N. Adler's *Some missing chapters of Ben Sira,* in *Jewish quarterly review,* v. 12 (1900). p. 466–480, reprinted in his *About Hebrew manuscripts,* p. 2–16.
Adler Collection.

Genizah fragment (no. 8). Liturgy with important colophon (written by Obadiah, the proselyte). Beginning of the 12th century. Paper.
Obadiah was a correspondent of Maimonides. See E. N. Adler, *Obadia le prosélyte,* in *Revue des études juives,* v. 69, p. 129 ff. and S. Poznanski, *ibid.,* v. 70, p. 70 ff; and cf. Jacob Mann's article, *ibid.,* v. 71, p. 89 ff.
HUC.

Genizah fragment (no. 21). Karaite liturgy. Two paper leaves.
HUC.

Genizah fragment (no. 1). Piyyutim, early. Two vellum leaves. Probably a part of Mahzor Yannai.
HUC.

A **Fragment** of a Gaonic letter from the Genizah written on vellum on the back of a scroll of Esther. 10th century.
The text of this letter was published by Prof. Jacob Mann, in *Hebrew Union College jubilee volume,* Cincinnati, 1925. p. 249–252.
HUC.

Genizah fragment. Calendar, for the years 1077–1088. Paper. 11th century.
HUC.

Genizah fragment (no. 10). Responsum. Paper.
HUC.

A **Genizah** fragment of the lost Viddui (confession) by Samuel Yarchinai, a distinguished Babylonian Amorah (165–257 C. E.).
The text was edited by Israel Abrahams, see his article *The lost "Confession" of Samuel* in the *Hebrew Union College annual,* v. 1, p. 377–385.
HUC.

Prayerbook from the Genizah with note signs for the blowing of Shofar. 14th century.
Adler Collection.

The **Hebrew** text of the Later Prophets with important Massoretic notes written on vellum in the East in the 9th century. From the Genizah of Yazd, Persia.
The oldest known Hebrew manuscript of the Bible.
Adler Collection.

Midrash Haggadol on Deuteronomy. 16th century. End supplied in 1651.
Schechter Collection.

The Genizah and Some of Its Fragments, continued.

A **Judeo-Arabic** letter bearing the signature of Moses Maimonides (1135–1204).

Edited by S. H. Margulies in his article *Zwei autographische Urkunden von Moses und Abraham Maimuni* in *Monatsschrift für Geschichte und Wissenschaft des Judenthums,* v. 44, 1900, p. 8–13.
Schechter Collection.

A **Judeo-Arabic** letter, addressed to Abraham, the son of Maimonides, with his answer in autograph written underneath.

Edited by Margulies in *Monatsschrift für Geschichte und Wissenschaft des Judenthums,* v. 44, 1900, p. 8–13.
Schechter Collection.

An **Inquiry** in Judeo-Arabic, addressed to Moses b. Maimon, and his autograph Responsum (written about 1180).

Edited by Elkan N. Adler in his article *Ein Responsum des Maimonides in der arabischen Sprache,* in *Monatsschrift für Geschichte und Wissenschaft des Judenthums,* v. 69, 1925, p. 111–112.
Adler Collection.

A **Fragment** of the Biblical History by Saadiah Gaon (892–942).

See A. Marx in *Revue des études juives,* v. 58, 1909, p. 299–301.
Adler Collection.

Genizah fragment of a Responsum on calendation ascribed to R. Hai Gaon (939–1038). Some words are provided with Tiberian vowels.

Gift of Dr. Cyrus Adler to the Dropsie College, Philadelphia, Pa.

Genizah fragments of Hefes b. Yasliah's Book of Precepts. End of 10th century. Acquired by Dr. Cyrus Adler while in Cairo in 1891 and presented by him to the Dropsie College for Hebrew and Cognate Learning, Philadelphia, Pa.

These fragments were identified, edited, translated into Hebrew and published with an elaborate introduction by the late Prof. Benzion Halper. Cf. his *A volume of the Book of Precepts by Hefes b. Yasliah,* Philadelphia, 1915.

Chefez ben Yazliach. A volume of the Book of precepts by Hefes. B. Yasliah, edited from an Arabic ms. in the library of the Dropsie College, translated into Hebrew, and provided with critical notes and an introduction by B. Halper... Philadelphia, 1915. iv, 278 p. 8°.

Dissertation, Dropsie College for Hebrew and Cognate Learning, 1913.
Schiff Collection.

Genizah fragment of R. Hai Gaon's Responsa.

These were edited and published by Prof. Louis Ginzberg in his *Geonica,* v. 2, p. 43–47.
Amram Collection.

A **Hoard** of Hebrew manuscripts. Two essays in the late Prof. Solomon Schechter's *Studies in Judaism.* v. 2 describing the Genizah and its discovery.

Schiff Collection.

Mann, Jacob. The Genizah. (Menorah journal, v. 7, 1921, p. 290–308.)

Presents the significance of the Genizah to Jewish scholarship.
Schiff Collection.

Ginzberg, Louis. Geonica. 1–2. New York, 1909. 2 v. 8°. (Jewish Theological Seminary of America. Texts and studies. v. 1–2.)

Schiff Collection.

Saadyana Geniza fragments of writings of R. Saadya Gaon and others. Edited by S. Schechter. Cambridge: Deighton & Bell, 1903. xii, 148 p. 8°.

Schiff Collection.

A **Genizah** fragment of a Piyut to the Amidah of Sabbath Hanukah.

From the library of Prof. Richard J. H. Gottheil.

A **Genizah** fragment of a polemical work against Christianity written in Judeo-Arabic.

The text of this fragment together with an English translation was published by Prof. Richard Gottheil, in his *Some Genizah gleanings,* in *Mélanges Hartwig Derenbourg,* Paris, 1909, p. 83–101.
From the library of Prof. Richard J. H. Gottheil.

A **Genizah** fragment of Azharot for Shabuot (Pentecost).

From the library of Prof. Richard J. H. Gottheil.

A **Judeo-Arabic** letter from the Genizah.

The text and translation of this letter were published by Prof. Richard Gottheil, in his *Some Genizah gleanings,* in *Mélanges Hartwig Derenbourg,* Paris, 1909, p. 83–101.
From the library of Prof. Richard J. H. Gottheil.

PASSOVER HAGGADAH ACCORDING TO VARIOUS ORIENTAL RITES

Haggadah with Arabic translation. Lithographed.

Adler Collection.

Fragments of Haggadah with Arabic paraphrases.

JTS.

Illustrated Haggadah with Arabic translation. Lithographed in Alexandria (?), 19th century.

Adler Collection.

Haggadah on vellum. Oriental — illuminated.

Adler Collection

Passover Haggadah According to Various Oriental Rites, continued.

Passover Haggadah with Arabic rubrics.
Adler Collection.

Haggadah with Persian translation.
Adler Collection.

Passover Haggadah. Egyptian rite.
JTS.

Illuminated Haggadah. Vellum. Byzantinian style. 13th century.
From the collection of the famous bibliophile Abraham Josef Solomon Graciano.
Adler Collection.

Illuminated Haggadah. Fragment unique. Oldest illuminated Haggadah in print. Constantinople, 1515.
Adler Collection.

JEWS IN CHINA

On the Chinese manuscripts see Neubauer's *Jews in China,* in *Jewish quarterly review,* v. 8, 1895–96, p. 123–139, and the literature quoted by him.

Rubbings of a memorial stone with the double inscription of 1489 and 1512, that tells the story of the Jewish colony at Kai-Fung-Foo, China.
See Jerôme Tobar, *Inscriptions juives de Kai-Fung-Fou,* Shanghai, 1900.
This weather-beaten commemorative stone, rubbings of which are exhibited here, is the solitary witness to the departed synagogue of the Chinese Jews.
Those in frames were presented to the Jewish Theological Seminary of America by Dr. Harry Friedenwald, Baltimore, Maryland. The others belong to the Library of the Hebrew Union College.

Hebrew manuscript from China (no. 4). Various prayers; followed by a long list of names, male and female, many being written in Chinese characters. This is evidently a register of the Jews resident in Kai-Fung-Foo about the 17th century.
HUC.

Hebrew manuscript from China (no. 1). Prayers, probably for the 9th day of Ab (fast-day in commemoration of the destruction of Jerusalem and the Temple).
HUC.

Hebrew manuscript from China (no. 3). Additional (Mussaf) prayers of the New Year and the Day of Atonement (Neilah); followed by a hymn. Folded form, in the shape of an accordion; written on both sides.
HUC.

Hebrew manuscript from China (no. 13). Prayers for Day of Atonement, followed by Prayers for Tabernacles. Partly without vowel points.
HUC.

Hebrew manuscript from China (no. 16). Prayers (musaf) for the three festivals. Folded form, in the shape of an accordion. Written on one side.
HUC.

Hebrew manuscript from China (no. 2). Sabbath prayers. Partly vocalized. Obliterated by water (in the inundation of the Yellow River in 1642).
HUC.

Hebrew manuscript from China (no. 6). Prayers for Sabbath upon which the new moon falls. Containing formula for announcing the new moon, and giving the days of the week in Syriac, and the names of the months in Hebrew.
HUC.

Hebrew manuscript from China (no. 8). Prayers and hymns for the close of Sabbath, in Hebrew and Syriac.
HUC.

Hebrew manuscript from China (no. 10). Prayers for Sabbath with direction in Judeo-Persian.
HUC.

Hebrew manuscript from China (no. 58). Deuteronomy, VII:12-XI:25. Section 4, small size.
HUC.

Hebrew manuscript from China (no. 53). Numbers, XXII:2–XXV:9. The part of the colophon which reads: "Free will offering of Abram, the son of Aaron, the son of Gamlin" (followed by a word in Persian), is written on slip of rice paper and pasted over two lines of writing.
HUC.

Hebrew manuscript from China (no. 64). The last Parashah (weekly portion) of Deuteronomy. The colophon, in old Judeo-Persian, reads, in part, as follows: "The [reading of?] Torah (Law) of 53 Parashah was finished in the feast of Tabernacles (?) in the year 1932 Sel. [1621 A.D.], in the month of Tebet, the 24th of it."
HUC.

Hebrew manuscript from China (no. 14). Prayers for the Reading of Law. Contains some Arabic words.
HUC.

Hebrew manuscript from China (no. 5). Passover Haggadah; with a Jewish-Persian translation. Mostly with vowel points.
HUC.

Jews in China, continued.

Hebrew manuscript from China (no. 12). Passover Haggadah; with partial Persian translation, and with directions in Persian. Partly without vowel points. (These Persian notes prove that the Chinese Jews received their liturgy from the Jews of Persia.)
HUC.

Hebrew manuscript from China (no. 15). Hymn on the wonders of creation (with acrostic "Eleazar"). Without vowel points.
HUC.

Mahzor for Cochin-China for New Years and the Day of Atonement. 18th century.
Adler Collection.

Prayers for Simhat Torah according to the rite of Cochin-China. Lithographed in Cochin, 1877.
Adler Collection.

Prayers, rite of Cochin-China. Amsterdam, 1757.
Adler Collection.

Wedding service and poems according to the rite of Cochin-China. 18th century.
Adler Collection.

Facsimiles of the Hebrew manuscripts, obtained at the Jewish Synagogue in K'ae-Fung-Foo. Shanghae: Printed at the London Missionary Society's Press, 1851.
The last four parts of these facsimiles of Chinese manuscripts are unique, and of the last two the originals are not found in the Hebrew Union College, Cincinnati.
This volume formerly belonged to A. Wylie (1852) and was also in possession of Prof. Cordier.
Presented by Abraham Erlanger to the Library of the Jewish Theological Seminary of America.

The **Old Testament** in the Mandarin colloquial. Translated from the Hebrew by the Reverend Samuel I. J. Schereschewsky, D. D. (a Russian Jew) of the American Episcopal Mission, and printed for the American Bible Society at the press of the A. B. C. F. M., Peking, China, 1875.
American Bible Society Collection.

Pentateuch roll in Hebrew. Used by the colony of Jews at Kai-Fung-Foo, China. Probably written in the 15th century, A.D. This manuscript on goat or sheep skin contains the book of Genesis, Exodus, and Leviticus as far as chapter 18, being incomplete. It measures, none the less, 70 feet 5 inches in length by 23 inches in width. Purchased in Pekin from the original source of ownership by Dr. S. Wells Williams, who presented it to the American Bible Society in 1868, by whom it was deposited with The New York Public Library.
American Bible Society Collection.

Adler, Marcus Nathan. היהודים בסינא. [Translated into Hebrew by Elhanan Segal.] Wilna: I. Piroshnikoff, 1901. 35 (1) p. 8°.
Schiff Collection.

Cordier, Henri. Les Juifs en Chine. Paris: L. Cerf, 1891. 14 p., 1 l. 12°.
Schiff Collection.

Eddy, Frederick W. First mission to colony of Chinese orthodox Jews, undertaken by society formed at Shanghai for the purpose of restoring rather than converting. Facts concerning congregation at Kaifang-fu... Clipping from the New York Times, May 3, 1903, mounted on 13 l., and bound. 8°.
NYPL.

Finn, James. The Jews in China: their synagogue, their scriptures, their history, etc. London: B. Wertheim, 1843. viii, 86 p., 1 l. 12°.
Schiff Collection.

—— The orphan colony of Jews in China ...with the latest information concerning them. London: J. Nisbet & Co., 1872. iv p., 1 l., 124 p. 12°.
Schiff Collection.

Glover, A. Kingsley. Jewish-Chinese papers. Appleton, Wis. [1894.] 14 p. 8°.
Schiff Collection.

The **Jews** at K'ae-Fung-Foo: being a narrative of a mission of inquiry to the Jewish synagogue at K'ae-Fung-Foo, on behalf of the London Society for Promoting Christianity among the Jews. [Journals of K'hew T'heen-Sang and Tseang Yung-Che] with an introduction by...George Smith, Lord Bishop of Victoria. Shanghae: London Missionary Society Press, 1851. xii, 82 p., 1 l., 1 map. 8°.
Schiff Collection.

Joseph, Saul Abdullah.
גבעת שאול. ספר כולל ביאור מספיק לשירי ר׳ יהודה הלוי. חברו הרב המנוח ר׳ שאול בן עבדאללה יוסף...ומעזבון המחבר הכינו לדפוס, הוציאו וגם הגיהו שמואל קרוים. ווינא, תרפ״ג.
[Vienna: I. Unger, 1923.] 406 p., 1 port. 8°.
Schiff Collection.

Katz, A. Die Juden in China. Berlin: A. Katz, 1900. 32 p. 8°.
Schiff Collection.

Murr, C. G. von. Versuch einer Geschichte der Juden in Sina. Nebst P. Ignaz Koeglers Beschreibung ihrer heiligen Buecher in der Synagoge zu Kai-fong-fu, und einem Anhange ueber die Entstehung des Pentateuchs. Halle: J. C. Hendel, 1806. 136 p. nar. 8°.
Schiff Collection.

Jews in China, continued.

Perlmann, S. M. Hassinim (The Chinese.) Chinese life, manners and customs. Culture and creeds, government system and trade. With an appendix The Jews in China, being a complete record of their past history and present condition in the Celestial Empire. (With illustrations.) London, 1911.
From the library of M. H. Tausner.

—— The Jews in China... London: Probsthain & Co., 1909. 24 p. 8°.
Schiff Collection.

Schwartz, Élie. Le peuple de Dieu en Chine... Strasbourg: R. Schultz & Co., 1880. 2 p.l., 52 p. 8°.
Schiff Collection.

Sionnet, abbé. Essai sur les Juifs de la Chine, et sur l'influence qu'ils ont eue sur la littérature de ce vaste empire avant l'ère chrétienne... Paris: Merlin, 1837. 24 p. 8°.
Repr.: Annales de philosophie chrétienne, March, 1837.
Schiff Collection.

THE SAMARITANS AND THEIR LITERATURE

Samaritan manuscript. The Book of Deuteronomy in Hebrew, in Samaritan characters, beginning with chapter 3, till the end. Written on a scroll of vellum (measuring 10 feet, 5 1-2 inches by 13 1-2 inches. Nablus (Palestine), dated 1391.
HUC.

Samaritan Pentateuch. There is much controversy as to the age of the oldest Samaritan Pentateuch extant, some believing it to be of the 3rd Christian century. The writing is the archaic form of Hebrew characters, the Phœnician Hebrew. One of the finest known manuscripts is exhibited.
The Hebrew Pentateuch in the old Samaritan characters is still used by the remnant of the Samaritans in Nablus, the ancient Sichem (Palestine). The colophon is to be read out of the text itself commencing at the beginning of the Book of Deuteronomy (fol. 264b), the individual letters forming the text. This colophon reads: "I, Abraham, son of Israel, son of Abraham, son of Joseph, the prince, King of Israel, have written this copy of the Holy Law for myself in the name of my son in the year 629 of the Ishmaelites (Mohammedans), which is 3200 years after the Children of Israel settled in the Land of Canaan, and 5993 years after the creation of the world." This date corresponds to the year 1231–1232 A.D. The manuscript contains 549 folios, of which the first two and the last eleven have been added at a later date. Purchased in 1895.
On this manuscript see *A critical copy of the Samaritan Pentateuch written in A. D. 1232* by W. Scott Watson in *Hebraica,* v. 9, 1893, p. 216–225, v. 10, 1894, p. 122–158. Cf. *Der hebräische Pentateuch der Samaritaner herausgegeben von August Freiherrn von Gall,* v. 1, 1914, p. xxxiii–xxxv.
See Richard Gottheil's article on *The dating of their manuscripts by the Samaritans,* in *Journal of biblical literature,* v. 25, 1906, p. 29–48.
Lenox Collection.

A **Samaritan** manuscript of the Hebrew Pentateuch. Watson Codex II. This manuscript claims to have been written in Damascus in the year 35 of Hegira (began July 11, 655).
See W. Scott Watson, *A Samaritan manuscript of the Hebrew Pentateuch written in A. H. 35;* in *Journal of the American Oriental Society,* v. 20a, p. 173–179.
Lent by the owner, Rev. W. Scott Watson.

An **Arabic** translation of the Samaritan Pentateuch written in Damascus, in 1367. At the beginning of each division first words of the Samaritan text in Samaritan characters.
Adler Collection.

A **Samaritan** Book of Joshua in Arabic. Copied ca. 1350.
The book was edited by Ingnboll, 1848; and an English translation by Crane, *The Samaritan Chronicle,* New York, 1890.
Adler Collection.

Samaritan manuscript. Sabbath prayers. Modern copy.
HUC.

Liturgy for the Day of Atonement.
Sulzberger Collection.

Samaritan liturgy for Passover. Written in 1763–1783.
Adler Collection.

Samaritan liturgy for the month of Nissan. A manuscript.
For a complete edition of the liturgy of the Samaritans, see *The Samaritan liturgy, edited by A. E. Cowley.* Oxford, 1909. 2 v.
Adler Collection.

Samaritan calendar for year 1747.
About Samaritan calendars see M. Gaster, *The Biblical lessons,* London, 1913, appendix, reprinted from *Jewish review.*
Adler Collection.

Gaster, Moses. The Samaritans: their history, doctrines and literature. With six appendices and nineteen illustrations. London: Published for the British Academy by H. Milford, Oxford University Press, 1925. vi p., 1 l., 208 p., 18 pl. 8°. (The Schweich lectures, 1923.)
Schiff Collection.

Heller, Chayyim.
הנוסח השמרוני של התורה העתקה מתוך נוסח המסורה. מאת חיים העליר. ברלין, תרפ"ד.
[Berlin, 1924.] 207 p. 4°.
NYPL.

The Samaritans and Their Literature, cont'd.

Montgomery, James Alan. The Samaritans, the earliest Jewish sect; their history, theology and literature. Philadelphia: The J. C. Winston Co., 1907. 2 p.l., vii–xiv p., 2 l., 358 p., 1 map, 1 plan, 22 pl. 8°. (The Bohlen lectures for 1906.)

Schiff Collection.

Munro, J. Iverach. The Samaritan Pentateuch and modern criticism, with an introduction by the Rev. Professor James Orr... London: J. Nisbet & Co., Limited, 1911. xxviii, 106 p. 12°.

Schiff Collection.

Nutt, John William. A sketch of Samaritan history, dogma, and literature. London: Truebner & Co., 1874. viii, 172 p. 8°.

Published as an introduction to *Fragments of a Samaritan Targum, ed. from a Bodleian ms.*

Schiff Collection.

Shelaby, Jacob esh. Notices of the modern Samaritans, illustrated by incidents in the life of Jacob esh Shelaby. Gathered from him, and translated by E. T. Rogers. London, 1855. sq. 8°.

Schiff Collection.

Thomson, John Ebenezer Honeyman. The Samaritans; their testimony to the religion of Israel. Being the Alexander Robertson Lectures, delivered before the University of Glasgow in 1916. London: Oliver and Boyd, 1919. ix p., 1 l., 438 p., 1 l. 8°

Schiff Collection.

THE JEWS OF YEMEN AND THEIR LITERATURE

Yemen manuscript of the Hebrew text of the Book of Deuteronomy written on vellum in 1480.

Adler Collection.

A **Fragment** of a Yemenite vellum manuscript of the Pentateuch in which each verse is followed by Targums. Written in the 14th century (?).

Adler Collection.

Pentateuch with Massorah written in Yemen in 15th century.

Adler Collection.

Yemen prayer book written in 1479.

Adler Collection.

A **Yemen** manuscript of Midrash Hefetz written in 15th or 16th century.

See Steinschneider, Berlin catalogue, v. 1.
Adler Collection.

Fragment of a letter written in Sana'a dealing with a pseudo-messiah who appeared in Yemen in the last century.

JTS.

Yemenite miscellany. The pages exhibited are part of the famous מעשה ישו. Prof. Samuel Krauss in his "Leben Jesu," edited and published the text of this manuscript.

Adler Collection.

Mishna Seder Zeraim with the Arabic commentary by Moses Maimonides. A Yemen manuscript on vellum written in 1317. See Deinard, אור מאיר, p. 44.

Sulzberger Collection.

A **Passover** Haggadah with commentary forming part of a Yemenite prayer book written in 1661.

Adler Collection.

The **Haggadah** according to the rite of Yemen, together with the Arabic-Hebrew commentary, published for the first time from mss. of Yemen, with an introduction, translation and critical and philological notes by William H. Greenberg. London: D. Nutt, 1896. xxvi, 55, 79 p. 8°.

Schiff Collection.

יהודי תימן. מאת ר' בנימין. יפו, הוצאת „קרן." בקלן, תרע"ג.

Schiff Collection.

THE KARAITES AND THEIR LITERATURE

A **Hebrew** Pentateuch with Tartar translation in Hebrew characters. Printed for the use of Karaites. Ortakoi, 1832–35.

American Bible Society Collection.

A **Karaite** commentary on the Pentateuch written in Arabic.

Adler Collection.

Tartar version on the Hebrew Pentateuch (vocalized). Published for the use of Karaites.

Adler Collection.

The **Aramaic** code of law. By Anan, the founder of the Karaitic sect. A vellum manuscript.

Published from this manuscript by A. Harkavy in his *Studien und Mittheilungen,* St. Petersburg, 1903.

Adler Collection.

A **Manuscript** of the Karaite code of law, by Samuel ben Moses Magrabi. Written in Arabic in Hebrew characters and completed in 1434 in Cairo.

Adler Collection.

The Karaites and Their Literature, continued.

Samuel Magrabi's code of law. Translated into Hebrew by Samuel b. Samuel Hakohen Kinzi. Written in Damascus in 1722.
See on this ms., Pinsker, לקוטי קדמוניות.
JTS.

ספר תפלות למנהג הקראים. Karaitic prayer book. First printed edition issued in 1528 from the press of Daniel Bomberg, Venice, for the use of the Karaites in Constantinople. First Karaite book printed.
Adler Collection.

A **Daily** prayer book printed in Budapest in 1903 for the use of the Karaites in Egypt.
Schiff Collection.

Selichot of Karaites.
JTS.

Selichot according to the rite of the Karaites.
Adler Collection.

Zemirot of the Karaites.
Sulzberger Collection.

ספר המצות. The Book of Precepts by Yephet b. David b. Zair, (Karaite.) Parts VII–VIII. Arabic in Hebrew characters.
Adler Collection.

A **Karaitic** catechism in Arabic. Printed in Cairo.
Schiff Collection.

Tadhib, Karaite periodical in Arabic, v. 1, 1902.
JTS.

Diwan of Caleb Afendopulo (a Karaite). Constantinople, 16th century.
Adler Collection.

Joseph Albasir's questions and answers. Original copy dictated by the blind author, 1047–48. (Proves that the date 1040 given for the author's death is too early.)
Sulzberger Collection.

A **Karaite** prayer book written in Persia in the 17th century.
Sulzberger Collection.

Poznanski, Samuel. The Karaite literary opponents of Saadiah Gaon. London: Luzac & Co., 1908. vii, 104 p. 8°.
Schiff Collection.

Rule, William Harris. History of the Karaite Jews. London: Longmans, 1870. xii p., 1 l., 232 p. 8°.
Schiff Collection.

JEWS IN PERSIA AND THEIR LITERATURE

Judeo-Persian dictionary of the Bible. 16th century.
Presented by Mr. Louis Bamberger to the Library of the Jewish Theological Seminary of America.

A **Collection** of Persian poems written in Hebrew characters.
Adler Collection.

A **Manuscript** of a collection of Judeo-Persian poems.
Adler Collection.

Nizami's story of Khazraw and Shirin. Persian in Hebrew characters. Illuminated manuscript of the 17th century.
Adler Collection.

Jami. The Persian story of Jussuf and Zuleika. Written in Hebrew characters. Fragment, illuminated.
Adler Collection.

Shahin's Ardeshir and Ezra story. Illuminated Judeo-Persian manuscript written ca. 1650, in an illuminated binding.
The Ezra book was edited by W. Bacher under the title, *Le livre d'Ezra de Schahin Schirazi* and published in *Revue des études juives,* v. 55, p. 249–280.
JTS.

Adler, Elkan Nathan. The Persian Jews: their books and ritual. [Oxford: University Press, 1898.] 46 p. 8°.
Repr.: Jewish quarterly review, v. 10, p. 584–625.
Schiff Collection.

JEWS IN INDIA

The **Israelite.** Bombay. v. 10, no. 1–2 (Jan.–Feb., 1926).
Schiff Collection.

A **Facsimile** of the original settlement deed of the Jewish colony at Couchin. Published by A. C. Burnell. (Indian antiquary. Bombay, 1874. v. 3, p.)
NYPL.

פזמונים לשמחת תורה. A collection of hymns for Simchat Torah according to the Bagdad rite. Bombay, 1885.
Schiff Collection.

ספר רזיאל הגדול. Calcutta, 1845.
Adler Collection.

Jews in India, continued.

תורת גויים עריות. A unique Hebrew manuscript describing the religion of the Hindoos. By Ezekiel Rachabi, d. 1771.
From the library of George A. Kohut.

Nathan Adler's course of sermons. Freely translated into Marathi. Bombay, 1878.
Adler Collection.

Song of Zion by Isaac, bound with Azharoth translated in Marathi by Benjamin Samson. Bombay, 1893.
Adler Collection.

The **Hebrew** Gazette, Judeo-Arabic newspaper. Bombay, 1858.
The oldest Jewish newspaper published in India. Began as a fortnightly in 1856 and later issued as a weekly. Had 25 monthly subscribers. Only one other copy dated September 4, 1863 is known to be in existence.
Adler Collection.

Elementary Hebrew grammar in Marathi by Joseph Ben Ezekiel, 1882.
Adler Collection.

ספר תפלת החדש כמנהג ק"ק ספרדים. Daily prayers. Hebrew with translation into Marathi by Joseph Ezekiel Rajpurkar. Bombay, 1889.
Adler Collection.

Ethics of the Fathers translated by Semul Moses Bhoukar. Bombay, 1870.
Adler Collection.

Haggadah with translation into Marathi with curious illustrations in the beginning. Calcutta, 1874.
Adler Collection.

Haggadah with Arabic translation written by a Bagdad Jew and lithographed at Bombay.
Adler Collection.

Megillah, printed as scroll. Bagdad, 1909.
JTS.

Kinoth with Malai translations. Lithographed. Cochin, 1877.
Adler Collection.

Selihoth, with Marathi translation. Printed in Poona, India, 1874.
Adler Collection.

מועדים. Prayers of the three great Jewish festivals. Translated into Marathi with notes by Joseph Ezekiel. Bombay, 1901.
Adler Collection.

Prayers with Malai translation in Indian dialect. Lithographed. Cochin, 1877.
Adler Collection.

Abraham, C. S. Benjamin & Co. A story of Calcutta. London [1925].
A modern novel depicting the life of the Jews in Calcutta.
From the library of Edward D. Coleman.

The **Bene-Israel** annual and year book. Bombay, 1917–18.
Editor, 1917/18: Rebecca Reuben.
Schiff Collection.

Isaac, I. A. A short account of the Calcutta Jews, with a sketch of the Bene-Israels, the Cochin Jews, the Chinese Jews and the black Jews of Abyssinia. Calcutta, 1917. [62] p. 12°.
"The Chinese Jews", by Oliver Bainbridge; "The black Jews of Abyssinia", by Dr. Jacques Faitlovitch.
Schiff Collection.

Kehimker, H. S. A sketch of the history of Beni-Israel, an appeal for their education. [By H. S. Kehimker.] Bombay: Education Society's Print [189–?]. 1 p.l., 38 p. 8°.
Schiff Collection.

Lord, James Henry. The Jewish mission field in the Bombay diocese...together with other supplementary matter, containing particulars as to the numbers and location of the Jews of India. Bombay: Education Society's Steam Press, 1894. 1 p.l., iii, 94 p. 24°.
Schiff Collection.

—— The Jews in India and the Far East ... Kolhapur: Mission Press, 1907. 2 p.l., iii, 120, 17 p. 12°.
Repr.: Church and synagogue magazine, 1903–06.
Schiff Collection.

Raffalovich, Samuel. The Jews of Malabar, white and black. Jerusalem, 1901. 1 p.l., 32 p. 24°.
Schiff Collection.

Why I am a Jew? Bombay, 1895. (Morathi).
Adler Collection.

HEBREW BIBLES FROM THE ORIENT

Hebrew Bible written for R. Jacob b. Samuel Aboab by R. Abraham Caliph and finished in Toledo, Spain in Nisan, 1492, three months before the expulsion. The Massoretic notes were added by R. Chayyim ibn Chayyim in Constantinople in 1497.

The colophon reads: "This book in which are the twenty-four books of scripture, was written by the hands of the learned R. Abraham Caliph in the city of Toledo, which is in Spain. And it was finished in the month of Nissan, 5252, Anno Mundi, for the most learned R. [Jacob Aboab], son of the esteemed R. [Samuel]. May the Lord permit him to meditate therein him and his seed and his seed's seed for ever. And on the seventh of the month of Ab, in the selfsame year, the exiles of Jerusalem which were in Spain went forth dismayed and banished by the King's command. May they come back with joy,

Hebrew Bibles from the Orient, continued.

bearing their sheaves. And I Haim Ibn Haim have written therein part of the Massora and the variants in the year 5257 in the city of Constantinople. May salvation be at hand!"
Adler Collection.

Pentateuch with Targum and Rashi printed on vellum. The illumination of the last page was previously used in Hijar and Lisbon. Constantinople, 1505.
Adler Collection.

Hebrew Pentateuch with Targum Onkelos, Judeo-Persian translation, Saadiah Gaon's Arabic version and Rashi's commentary. Constantinople, 1546–47.
Lenox Collection.

Pentateuch without vowels, accents and periods serving as model for scribes of scrolls. Vellum, 14th century. At the bottom of fo. 54 is a note by a famous scholar, Menahem di Lonzano, 1572–1619.
Sulzberger Collection.

Saadiah's Arabic translation of the Pentateuch, 16th century.
JTS.

Saadiah Gaon's translation of the Pentateuch with Midrashic comments on the margin written in the 16th or 17th century. From the Genizah in Bosrah, Mesopotamia.
Adler Collection.

The **Hebrew Pentateuch** with Massoretic notes written in Yemen with the colophon of the Ben Asher Codex in an interesting box binding.
Adler Collection.

A **Fragment** of the Psalms on paper. 12th century. With unknown readings of Ben Naftali on the margin. From the Genizah.
JTS.

Song of Songs. Each verse followed by Aramaic or Arabic translation. Yemen manuscript, 16th century. This ms. was used by Dr. Raphael Hai Melamed in his edition of the Targum to Canticles, Philadelphia, 1921.
Sulzberger Collection.

The **Former** Prophets in the Judeo-Spanish translation. Written in 1580 in the house of the "most illustrious lady Reyna," the widow of Duke Don Joseph Nasi.
Sulzberger Collection.

Moses Alshech's commentary on Genesis. Printed in Belvedere near Constantinople, in the press of Donna Reyna, widow of Don Joseph Nasi, 1595.
Sulzberger Collection.

A **Facsimile** of Codex Petropolitanus. The oldest dated manuscript of the Hebrew Bible known. The original is in Leningrad, Russia.
NYPL.

A **Fine** Oriental manuscript of the Book of Exodus. With Midrash Tanhuma, Lekah Tob, the homilies of Joshua ibn Shoeib and a supercommentary on Ibn Ezra's longer commentary. Copied by Joseph ben Abraham b. Joseph Levi.
Adler Collection.

EARLY ORIENTAL IMPRINTS

זרע יצחק. Isaac Lombroso's Talmudic notes. First book printed in Tunis, 1768.
Schiff Collection.

ארבעה טורים. Jacob ben Asher's Code. Constantinople, 1493. First book printed in the Balkans, only Hebrew incunabulum printed there.
JTS.

ספר כריתות. Methodology of the Talmud by Samson of Chinon. 14th century. Printed in Constantinople, 1515.
Schiff Collection.

פתרון חלומות. Solomon Almoli's Interpretation of dreams. First edition. Saloniki, ca. 1515–17.
Adler Collection.

חלק הדקדוק לרד"ק David Kimchi's grammar. First edition. Constantinople, 1515. No other copy known.
Adler Collection.

כתר תורה. The crown of law, by David Vital. Constantinople, 1536.
Schiff Collection.

תחכמוני The first edition of a Collection of poetic tales by the celebrated Judah Al-Charizi, a thirteenth century Hebrew poet. Constantinople, 1540.
Schiff Collection.

מחברת שבט סופר Hebrew letter-writer. Constantinople, 1545. Unrecorded book.
Adler Collection.

תשובות הרב רבינו נסים ב"ר ראובן גירונדי Responsa by R. Nissim b. Reuben Gerondi. Constantinople, 1548.
Schiff Collection.

רפואות התלמוד. Medicine in the Talmud, printed in Cairo, 1562. First book printed in Egypt.
See A. Freimann, *Typographisches*, in *Zeitschrift für hebräische Bibliographie*, v. 12 (1908), no. 19, p. 15.
Adler Collection.

Early Oriental Imprints, continued.

פירוש דניאל הנקרא חבצלת השרון. Daniel, with commentary of Moses Alshech. Safet, 1563. First book printed in Palestine.

Adler Collection.

כתובות. Talmud, treatise Ketuboth. Printed in Kuru Tshesme in the home of Donna Reyna, the widow of Don Joseph Nasi. 1598 (?).

Adler Collection.

כסף נבחר. Josiah Pinto's Kesef Nibhar. A volume of sermons. Damascus, 1605. First book printed in Damascus.

Adler Collection.

ספר אבודרהם. David b. Joseph Abudraham's commentary on liturgy and ritual Fez, 1521. First book printed in Africa.

Type evidently taken over by exiles from Portugal.

Adler Collection.

שבט יהודה. A **Scarce** edition of Solomon de Vergas' Martyrology. Printed in Adrianople, 1554.

Adler Collection.

Samuel b. Isaac Sardi.

ספר התרומות שחבר הרב...שמואל בן...יצחק הספרדי...שלוניקי וישם.

[Salonica, 1595.] f°.

Schiff Collection.

MISCELLANEOUS — MOSTLY RITUALISTIC ITEMS

Prayers for the holidays. Rite of Corfu with illustrations at the beginning and end. A manuscript, ca. 1700.

Adler Collection.

Prayers for the Day of Atonement according to the ritual of Kaffa, Crimea. See Isaak Markon's מאמר על אודות מחזור מנהג כפא in Harkavy's *Festschrift,* St. Petersburg, 1908, p. 449–469.

Adler Collection.

Prayers according to the rite of Kaffa and Krassoff. Kaffa, 1735.

Adler Collection.

A **Ritual** for the New Year according to the rite of Algiers, written on vellum.

Adler Collection.

Haftaroth with David Kimhi's commentary according to the Byzantinian rite. Constantinople, 1505.

Adler Collection.

Mahzor Byzantinian rite on vellum. 15th century. Fol. 45. Greek elegy in Hebrew characters.

Adler Collection.

The **Book of Common Prayer,** in Hebrew with Greek rubrics. Written for the use of Christian Israelites at Smyrna. Dublin, 1829.

Certificate: I certify that during the time I was translating this Prayerbook for the use of the Christian Israelites, that lest they should deem it an offense to use a prayer written by a Gentile, I abstained from eating anything forbidden by the law of Moses nor did I use any pens but new ones, that had not been used in any other writing. Marianne Nevill No. 2 Mountjoy Square West, Dublin. October 25, 1829.

Schiff Collection.

Astronomical tables for Aleppo for the years 1505–1512.

In a collection of astronomical texts donated by Mortimer L. Schiff to the Jewish Theological Seminary of America.

Isaac Israeli's treatise on fever. Graeco-Hebrew characters of the 15th century.

Sulzberger Collection.

Kitab al-Tabsara. Copied in Aleppo in 1483 by David b. Joshua, descendant of Moses Maimonides. Arabic in Hebrew characters.

Sulzberger Collection.

Part of Megillath Bostanai in Arabic written by Nathan Gaon according to traditions of heads of the (Babylonian) academies and R. Hushiel, the Kairuvan scholar, Cairo, 1000.

The two inner leaves of this fragment in the British Museum, were published by Margoliouth, in *Jewish quarterly review,* v. 14, p. 303–307.

Adler Collection.

Fragment of Siddur of Saadia Gaon. Oriental Rabbinical characters. 15th century. Contains pages missing in the Oxford ms. of the Siddur.

Adler Collection.

Abridgment of Bachya's "Duties of the Heart." Written by a Persian scribe in Palestine in 1442.

Sulzberger Collection.

Solomon ben Samuel of Gurgang's Hebrew-Persian dictionary on Bible and Talmud. Copied, 1490.

See on this manuscript Bacher's *Ein Hebr.-Pers. Wörterbuch,* p. 7.

Adler Collection.

A **Rare** cabbalistic amulet from the Orient. Designed in the shape of the Seven Branched Candlestick and based on Psalm 67.

NYPL.

Abraham Zacuto's introduction to the Almanach, abridged Judeo-Spanish. Saloniki, 1568.

Adler Collection.

Miscellaneous — Mostly Ritualistic Items, continued.

Abraham Zacuto Almanach, Judeo-Spanish, written in Constantinople, 1773.

"Zacuto's *Tables* always accompanied Columbus on his voyages, and rendered him inestimable service to them, in fact, he and his crew once owed their lives." — *M. Kayserling Christopher Columbus, New York, 1894, p. 48–49.*

Adler Collection.

A **Scroll** recording the events in connection with the delivery of the Jews in Cairo, 1524. Hebrew and Arabic in parallel columns.

For Hebrew text see Margoliouth, *Jewish quarterly review,* v. 8, p. 274–288.

Adler Collection.

Takkanot of Jews of Fez after 1492. Partly Arabic and Spanish in Hebrew characters. A North-African manuscript of the 18th century.

Adler Collection.

A **Volume** of Hebrew and Judeo-Arabic poems printed in Aden, 1891.

Sulzberger Collection.

Ibn al Djezzar, Viaticum. Medical treatise. Partly in Arabic and partly in the Hebrew translation of Moses ibn Tibbon. Copied in 1846. Oriental rabbinic characters.

JTS.

Hebrew and Judeo-Arabic poems. Printed in Aden, 1891.

Sulzberger Collection.

An **11th** century vellum manuscript of several tractates of the Talmud from the Orient.

Adler Collection.

Bentwich, Norman de Mattos. Palestine of the Jews, past, present and future...with an appendix: The redemption of Judaea, and other articles on the British advance. London: K. Paul, Trench, Trubner & Co., Ltd., 1919. 1 p.l., ix–xvi, 288 p., 1 map. 12°.

Schiff Collection.

British Museum. Jews and Christians in Egypt; the Jewish troubles in Alexandria and the Athanasian controversy, illustrated by texts from Greek papyri in the British Museum; edited by H. Idris Bell...with three Coptic texts edited by W. E. Crum... [London:] Printed by order of the trustees, 1924. xii, 140 p. illus. 4°.

Schiff Collection.

Corcos, J. M. A synopsis of the history of the Jews of Curaçao, from the day of their settlement to the present time. Curaçao: Imprenta de la libreria, 1897. 2 p.l., 5–48 p. 12°.

Schiff Collection.

Darmesteter, A. The Talmud, translated from the French by H. Szold. Philadelphia: Jewish Publication Society of America, 1897. 97 p. 12°. (Jewish Publication Society of America. Special series. no. 4.)

Schiff Collection.

Deutsch, Emanuel Oscar Menahem. The Talmud... Philadelphia: Jewish Publication Society of America, 1896. 107 p. 12°. (Special series. no. 3.)

"Reprinted from the 'Literary remains of the late Emanuel Deutsch,' London, 1874".

Schiff Collection.

Faitlovitch, Jacques. The Falashas. Reprinted from the American Jewish Year Book, 5881. Philadelphia: Jewish Publication Society, 1920. 21 p. 12°.

Schiff Collection.

—— Quer durch Abessinien. Meine zweite Reise zu den Falaschas. Berlin: M. Poppelauer, 1910. 3 p.l., (i) x–xv, 188 p., 2 facsims., 1 map, 1 pl. illus. 8°.

Schiff Collection.

Flad, Johann Martin. The Falashas (Jews) of Abyssinia. With a preface by Dr. Krapf. Translated from the German by S. P. Goodhart. London: W. Macintosh, 1869. xiv p., 1 l., 75 p., 1 diagr. 16°.

Schiff Collection.

—— A short description of the Falasha and Kamants in Abyssinia, together with an outline of the elements and a vocabulary of the Falasha-language... Edited by L. Krapf. Chrishona, Switzerland: Mission-Press, 1866. 92 p. 16°.

Schiff Collection.

Hyamson, Albert Montefiore. Palestine; the rebirth of an ancient people. London: Sidgwick & Jackson, Ltd. [1917.] xv, 292 p., 1 folded map, 12 pl. 8°.

Schiff Collection.

Krauss, Samuel. Vier Jahrtausende juedischen Palaestinas. Frankfurt a.M.: J. Kauffmann, 1922. 157 p. 8°.

Schiff Collection.

Mann, Jacob. The Jews in Egypt and in Palestine under the Fatimid caliphs; a contribution to their political and communal history, based chiefly on Genizah material hitherto unpublished. [London:] Oxford University Press, 1920. 2 v. 8°.

Schiff Collection.

Margoliouth, David Samuel. The relations between Arabs and Israelites prior to the rise of Islam... London: Published for the British Academy by H. Milford, Oxford University Press, 1924. 3 p.l., 86 p., 1 l. 8°. (The Schweich lectures, 1921.)

Schiff Collection.

Miscellaneous — Mostly Ritualistic Items, continued.

Mendelssohn, Sidney. The Jews of Africa; especially in the sixteenth and seventeenth centuries... London: K. Paul, Trench, Trubner & Co., 1920. xiii, 199 (1) p., 1 port. 8°.
Schiff Collection.

—— The Jews of Asia, especially in the sixteenth and seventeenth centuries... London: K. Paul, Trench, Trubner & Co., Ltd., 1920. xiii, 241 p., 1 l., 1 port. 8°.
Schiff Collection.

Morais, Henry Samuel. The Daggatouns: a tribe of Jewish origin in the desert of Sahara. A review. Philadelphia: E. Stern & Co., 1882. 14 p. 8°.
Schiff Collection.

Rabinowitz, Alexander Suesskind.
...תולדות היהודים בארץ ישראל משנת ג׳ אלפים תת״ל ליצירה עד ה׳ אלפים תרע״ד. מאת א. ז. רבינוביץ. יפו, תרפ״א.
190 p. 8°.
Schiff Collection.

Rosanes, Salomon A.
דברי ימי ישראל בתוגרמה...
Husiatyn: F. Kawalek, 1907–12. 2 v. in 1. 8°.
Schiff Collection.

Stern, Henry A. Wanderings among the Falashas in Abyssinia, together with a description of the country and its various inhabitants... London: Wertheim, Macintosh & Nutt, 1862. viii, 322 p., 1 map. illus. 8°.
Schiff Collection.

Tolédano, Jacob Moïse.
ס׳ נר המערב. הוא תולדות ישראל במארוקו...
Jerusalem: A. M. Luncz, 1911. 5 p.l., 248 p. 8°.
Schiff Collection.

Voĭtinski, Vladimir Savel'yevich, and A. Ya. Gornstein. Еврей къ Иркутскѣ. Изданіе Хозяйственнаго правленія Иркутскаго еврейскаго молитвеннаго дома и Иркутскаго отдѣла Общ. распростран. просвѣщ. между евреями въ Россіи. Иркутскъ: Тип.-лит. П. И. Макушина и В. М. Посохина, 1915. xvi, 393 p. tables. 8°.

יוסף דעת. מ״ע מפיץ אור על תולדות בני ישראל היושבים בארצות טורקיה האירופית והאזיאטית וכל המוצאות אותם למן היום אשר באו לשבת בתן ועד עתה. מאת אברהם דאנון... [יו״ל פעמים בחודש.] אדריאנופלה: חברת דורשי ההשכלה ואגודת „שוחרי תושיה,״ תרמ״ח־תרמ״ט.
Adrianople: Sosieté des Progressistes, 1888–89. 1 v. 8°.
Schiff Collection.

סדר תפלות הפלשים. נעתק מכושית לעברית ע״י יוסף הלוי. פריז, תרל״ו.
Paris, 1877. 12°.
Schiff Collection.

Zepin, George. Falashas. A report concerning the advisability of establishing a school for Hebrew among the Falashas of Abyssinia. Submitted to Committee on Falasha Question. Cincinnati, 1912. 23 p. 8°.
Schiff Collection.

ECONOMIC AND SOCIOLOGICAL PERIODICALS IN THE NEW YORK PUBLIC LIBRARY

Part VII

MONEY, CREDIT, AND PRICES

Almanach des monnoies. année 1784–89. Paris [1783–88]. 24°. **TF**

American Bankers' Association. Report of the Currency Commission. Nov. 15, 1906; Jan. 18, 1908. New York, 1906–08. 8°. **TF**

American Protective and Credit Service. Cuban collector. v. 1, no. 3–4, 6–9 (Feb.–March, May–Aug., 1922). New York City, 1922. f°. **† TFH**

Architects' building material price section. *See* **Dow** Service daily building reports.

Arezzo, Italy. — Camera di Commercio e Industria. Listino del prezzo corrente delle merci sulla piazza di Arezzo. Semi-monthly. anno 22, no. 7–14, 16–18 (April 1–Sept. 15, 1921); anno 23, no. 4–6, 8, 10–21 (Feb. 14–March 15, April 16, May 14–Nov. 1, 1922); anno 24, no. 5 (March 15, 1923). Arezzo, 1921–23. f°. **† TFI**

No issue for Aug. 1, 1921.

Association of Banks for the Suppression of Counterfeiting. Annual report of the board of managers. no. 1–4, 6–13 (1853–56, 1858–65). Boston, 1854–66. 8°. **TF**

no. 1 bound in *TF p.v.57, no.21.*

Australia. — Inter-State Commission. Prices investigation. Report no. 1–5, 7–12. [Melbourne,] 1918–19. f°. **† TFI**

no. 1. Bread. 1918. 16 p.

no. 2. Meat. 1918. 16 p.

no. 3. Farm products group — milk, butter, cheese, condensed milk, and bacon. 1918. 22 p.

no. 4. Meat. Further report dealing with meat in New South Wales and Queensland. 1918. 37 p.

no. 5. Bread. Further report dealing with bread in New South Wales and Queensland. 1918. 23 p.

no. 7. Meat. Further report on reinvestigation. 1918. 57 p.

no. 8. Farm products groups... Further report. 1918. 38.

no. 9. Boots and shoes. 1918. 56 p.

no. 10. Fruit and vegetables. 1919. 33 p.

no. 11. Clothing. 1919. 47 p.

no. 12. Rents. 1919. 54 p.

Austria. — Ministerien für Handel und Ackerbau. Warenpreisberichte. [Weekly.] Jahrg. 1–4 (Jan. 11, 1912–Dec. 30, 1915); Jahrg. 5, Nr. 1–11, 15–37, 42 (Jan. 13–March 23, April 20–Sept. 21, Oct. 26, 1916); Jahrg. 6, Nr. 12–16, 18–31, 36, 52–53 (March 29–April 26, May 10–Aug. 9, Sept. 13, 1917, Jan. 3–5, 1918); Jahrg. 7, Nr. 1–17 (Jan. 17–May 9, 1918). Wien, 1912–18. f°. **† TFI**

Discontinued.

Jahrg. 4, Nr. 52 (Jan. 6, 1916) on shelf with Jahrg. 5.

Beals Corporation. Dow Service daily building reports. *See* **Dow** Service daily building reports.

Belgium. — Administration des Monnaies. Rapport du commissaire. année 1–2, 7, 11–14 (1900–01, 1906, 1910–13); 1914/19, 1920–21. Bruxelles, 1901–22. 8°. **TF**

Année 1914/19–1921 unnumbered.

Belgium. — Ministère des Affaires Économiques. Mercuriales des différents produits négociés sur les marchés de Belgique. [Monthly.] Dec., 1920–March, 1921. Bruxelles, 1921. nar. f°. **† TFI**

Supplement to: Belgium. — Office des Études Économiques et de la Documentation. Bulletin de documentation économique, † *TAHA.*

No more issued.

Berlin. — Statistisches Amt. Die Kosten des Ernährungsbedarfs. [Monthly.] Jahrg. [1], Nr. 3, 5–12 (March, May–Dec., 1900); Jahrg. 2–Jahrg. 4, Nr. 10 (Jan., 1921–Oct., 1923). Berlin, 1920–23. 4°. **† TFI**

Bimetallic League. The Bimetallic League and the Gold Standard Defense Association. Reply to the...Association. no. 1–2, 4–13, 16–17 (189–?). [London, 189–?] 8°. **TFD**

For other side of the discussion, see Gold Standard Defense Association.

1. General statement of the Gold Standard Defense Association. Reply of the League. 18 p.

no. 1 and 5 combined.

2. Lord Farrer appreciated. 19 p.

4. Faraday, F. J. The fictions of the Gold Standard Defense Association. 10 p.

5. Rejoinder by the Gold Standard Defence Association. Further reply of the Bimetallic League. p. [12]–18. Bound with no. 1.

6. The old bimetallism and the new. 8 p.

Money, Credit, and Prices, continued.

Bimetallic League, continued.

7. The measure of value and the metallic currency. 17 p.
8. Grenfell, H. R. England's adoption of the gold standard. 20 p.
9. Gibbs, H. H. The Gresham law. 26 p.
10. Powell, T. E. Bimetallism and legal tender. 25 p.
11. Powell, T. E. The scientific theory of bimetallism. 18 p.
12. Grenfell, H. R. The facts as to French bimetallism. 15 p.
13. Schmidt, Hermann. The working of bimetallism in the United States. 13 p.
16. Gibbs, H. C. Bimetallism considered. 23 p.
17. Bear, W. E. Bimetallism and agricultural depression. 28 p.

—— Leaflet. no. 1 (May, 1889). [Manchester, 1889.] 8°. **TFD**

1. Faraday, F. J. Agriculture and bimetallism. 1889. 4 p.

—— Report of proceedings at the annual meeting. 1888, 1893–95. Manchester, 1888; London, 1893–[95]. 8°. **TFD**

1888 has title: Proceedings of the Bimetallic Conference, Manchester, 1888.

1895 has title: Annual meeting... Speeches by A. J. Balfour and others.

Also abridged edition of 1894, 40 p., the unabridged edition having 79 p.

The **Bimetallist.** [Monthly.] v. 1–5 (1895–99); v. 6, no. 1–9, 11 (Jan.–Sept., Nov., 1900); v. 7, no. 1–2. London [1895–1901]. 8°. **TFD**

v. 7, no. 1–2 called 1901 series, no. 1–2.

Ceased publication.

Bimetallistische Monatsschrift. Organ des Deutschen Bimetallistenbundes. [Monthly.] Jahrg. 1–2. Berlin, 1895–98. 8°. **TFD**

Slightly irregular, with occasional combined issues.

Bureau of Economic Research. Quarterly bulletin. no. 1–2 (July–Oct., 1900). New York, 1900. 8°. **TFI**

Ceased publication.

Contains index number of prices compiled by J. R. Commons and N. I. Stone.

California. — Land Colonization and Rural Credits Commission. Circular no. 1. Sacramento, 1916. 8°. **TFH**

no. 1. Land settlement and rural credits. 8 p.

Canada. — Fruit Branch, Department of Agriculture. Telegraphic report. 1917/18, no. 1–28, 30–45 (Aug. 14–Nov. 27, Dec. 4, 1917–Feb. 1, 1918); 1918/19, no. 1–44 (Aug. 19, 1918–Feb. 27, 1919); 1919/20, no. 1–47 (Aug. 25, 1919–March 29, 1920); 1920, no. 1–2 (Aug. 26–30, 1920). Ottawa, 1917–20. f°. † **TFI**

Published semi-weekly for the most part during the fall and winter only.

Canada. — Labour Department. Wholesale prices, Canada. 1890/1909–1917. Ottawa, 1910–19. 4°. **TFI**

Editors: 1890/1909–1914, R. H. Coats; 1915–17, C. W. Bolton.

Canada. — Statistics Bureau: Internal Trade Branch. Prices and price indexes (commodities, securities, services). no. 3 (1913/24). Ottawa, 1925. 8°. **TFI**

Cleveland Association of Credit Men. Credit news. *See* **Credit** news.

Colombia. — Junta de Conversión. Informe de la Junta de Conversión al Congreso nacional. 1913–22. Bogotá, [1913]–22. 8°. **TF**

1914 is in *TIE p.v.114, no.5.*

Commercial Club, Charlotte, N. C. Report of Committee on Currency Reform. Bulletin no. 1. Charlotte, N. C., n.d. nar. 8°. **TF**

Issued probably in 1902 or 1903.

Commercial Society of Sourabaya. Market-report and price-current. *See* **Market-report** and price-current.

Conférence monétaire entre la Belgique, la France, la Grèce, l'Italie, et la Suisse. *See* **Latin Monetary Union.**

Conférence monétaire internationale. *See* **International Monetary Conference.**

Crédit anversois. Rapports sur l'exercice social. [no.] 10 (1907). Anvers [1908]. 4°. † **TF**

Credit guide and claim adjuster. Quarterly. v. 1, no. 4 (Dec., 1900); v. 6–7 (1903–04); v. 8, no. 3–4 (Sept.–Dec., 1905); v. 9, no. 1, 4 (March, Dec., 1906); v. 10, no. 1 (March, 1907); v. 14, no. 2 (June, 1910); v. 15, no. 4 (Dec., 1911); v. 16, no. 1 (March, 1912); v. 18, no. 2 (June, 1914); v. 19, no. 2 (June, 1915). New York, 1900–15. 4° and 8°. **TFH**

Credit monthly. *See* **National Association of Credit Men.** Monthly bulletin.

Credit news. Monthly. v. 13, no. 1, 5–8 (Oct., 1917, Feb.–May, 1918); v. 14, no. 2–10 (Sept., 1918–May, 1919); v. 15, no. 1–8 (Summer, 1919–April, 1920); v. 16, no. 1, 5–9 (Summer, 1920, Jan.–May, 1921); v. 17, no. 1–2, 6–33 (Oct. 10–17, Nov. 7, 1921–May 15, 1922); v. 18, no. 1, 3–4, 6–9 (Oct., Dec., 1922–Jan., March–June, 1923); v. 19, no. 1, 3, 5–7, 9, 11 (Aug., Oct., Dec., 1923–Feb., April, June, 1924). Cleveland, Ohio, 1917–24. 4°. **TFH**

Current.

Published by the Cleveland Association of Credit Men.

v. 17, weekly.

Credit Research Library. Social credit leaflets. *See* **Social** credit leaflets.

Cuban collector. *See* **American Protective and Credit Service.** Cuban collector.

Money, Credit, and Prices, continued.

Czecho-Slovakia. — Státní Úřad Statistický. Cenové zprávy... Rapports sur les prix. Rok 1921, číslo 1–2 (Jan.–Dec.); Rok 1922, číslo 1–7 (Jan.–Dec.); Rok 1923, číslo 1–13; Rok 1924, číslo 1–30. [Prague, 1921–24.] 4°. **TFI**

Current.

Also issued in Bohemian.

1924 title-page and text in Bohemian, German and French.

—— Cenové zprávy... Rok 1921, číslo 1–7 (Jan.–Dec.); 1922, číslo 1–17 (Jan.–Dec.); 1923, číslo 1–7, 10–22, 24–30. [V Praze, 1921–23.] 4°. **TFI**

Current.

Also issued in French: Rapports sur les prix.

Deutscher Bimetallistenbund. Bimetallistische Monatsschrift. *See* **Bimetallistische** Monatsschrift.

Deutscher Verein für internationale Doppelwaehrung. Schriften. Heft 1–20. Berlin, 1882–95. 12°. **TFD**

1. Laveleye, Émile de. Der Grund der Werthschwankungen zwischen Gold und Silber. 1882. 26 p.
2. Verhandlungen des Deutschen Reichstages über die Währungsfrage am 27. und 28. Januar 1882. Reden der Abgeordneten Leuschner, Dr. Bamberger, und von Reden. 1882. 60 p.
3. Arendt, Otto. Wider Soetbeer. 1882. 18 p.
4. Kardorff-Wabnitz, Wilhelm von. Zur Währungsfrage. 1882. 22 p.
5. Die bimetallistische Bewegung in England. Bericht über die am 8. März 1882 unter dem Vorsitz des Lord-Major der City im Mansion House zu London stattgehabte Versammlung der International Monetary Standard Association. 1882. 31 p.
6. Deutsche Vorschläge zur praktischen Lösung der Währungsfrage. Text und Kritik der Denkschrift der Norddeutschen allgemeinen Zeitung. 1882. 15 p.
7. Arendt, Otto. Offener Brief an Ludwig Bamberger. 1882. 130 p.
8. Der internationale bimetallistische Congress zu Köln am 11.–13. October 1882. 1882. 62 p.
9. Laveleye, Émile de. Das Wesen des Geldes. 1883. 37 p.
10. Gibbs, H. H. Die Doppelwährung. 1883. 64 p.
11. Die Währungsdebatte im Reichstag am 6. März 1885... Der Reden der Abgeordneten von Kardorff, Dr. Bamberger, Dr. Frege, Dechelhäuser, von Schalcha, und Dr. Windthorst; mit einen Anhang, Die Rede Bambergers besprochen vom Dr. Otto Arendt. 1885. 111 p.
12. Sydow-Dobberphul, H. von. Die Silberentwerthung und die internationale Krisis der Landwirthschaft der Industrie, und des Welthandels. 1886. 52 p.
13. Die Währungsdebatte im Reichstag...von 9.–11. Februar 1886. 1886. 134 p.
14. Bericht der Königlichen Untersuchungs-Commission in England über die jüngsten Aenderungen in den relativen Werthen der Edelmetalle Gold und Silber; Erster Theil. 1889. 117 p.
15. —— Same; Zweiter und dritter Theil. 1889. 184 p.
16. Sydow-Dobberphul, H. von. Beiträge zur Währungsfrage. 1893. 49 p.
17. Walsh, W. J. Bimetallismus und Monometallismus; ihre Bedeutung und ihre Einwirkung auf die Irische Landfrage. 1893. 80 p.
18. Balfour, A. J. Die Währungsfrage. Rede ...gehalten in London am 5. August 1893. 30 p.
19. Verhandlungen der internationalen bimetallistischen Konferenz in London...am 2. und 3. Mai 1894. 1894. 120 p.

Deutscher Verein für internationale Doppelwaehrung, continued.

English edition: International Bimetallic Conference, London, 1894. Report of proceedings, *TFD.*

20. Die Währungsdebatte im Reichstag am 15. und 16. Februar 1895. 1895. 102 p.

Dow Service daily building reports. Weekly building material price supplement. New York edition. Oct. 20, 1919–Dec. 26, 1925. New York, 1919–25. nar. f°. **† TFI**

Current.

Mimeographed.

Published by the A. E. Beals Corporation.

Date of issue changed, June, 1920, from Monday to Saturday.

Title changed, Oct., 1925, to: Architects' building material price section.

Contains daily issues, Nov. 3, 10, 1919; Feb. 7, p. 1, 5, Feb. 9, p. 24, 1920; Dec. 26, 1925.

Lack: Jan. 5, April 19, Aug. 7, Nov. 27, p. B., 1920; Jan. 29, June 18, July 9, 16, Aug. 20, Sept. 24, Nov. 19, Dec. 10, 1921; Jan. 7, 28, 1922; Nov. 17, 1923; Jan. 12, p. A, Feb. 2, p. A, March 8, p. A–B, March 22, p. A, April 26, p. A, May 17, p. A, May 31, p. A, July 19, p. A, Aug. 9, 23, p. A, Oct. 11, p. A–B, 1924; July 3, p. A–B, Aug. 1, p. A–B, Aug. 8, p. A, Aug. 15, p. A, Aug. 29, p. A–B, Oct. 17, p. A–B, Dec. 5, p. C, 1925.

Occasional errors in binding, 1919–21.

Dye's Government counterfeit detector. *See* **Government** counterfeit detector.

Egypt. Rapport...sur les opérations monétaires. 1886 (Jan.–June). Le Caire, 1886. 4°. **TF**

Faber, August, and Company. London weekly market report. *See* **London** weekly market report.

Federal Sugar Refining Company. Sugar market review. Oct. 6–Dec. 22, 1916; Jan. 5–Dec. 26, 1917. New York, 1916–17. 8°, f°. **† TFI**

Semi-weekly, Oct. 6, 1916–Sept. 19, 1917; weekly, Sept. 26–Dec. 26, 1917.

Lacking: Nov. 7, 1916; June 5, Sept. 11, 1917.

France. — Administration des Monnaies et Médailles. Rapport au Ministre des Finances, année 1–15, 17–21 (1896–1910, 1912/13–1917/18). Paris, 1896–1920. 8°. **TF**

1912/13–1917/18 biennial.

Germany. — Wirtschaftsministerium. Mitteilungen für Preisprüfungsstellen hrsg. vom Reichswirtschaftsministerium für alle mit dem Preisprüfungswesen befassten Behörden und Stellen. Jahrg. [1]–9 (March 21, 1916–Dec., 1924). Berlin, 1916–24. 4°. **†TFI**

Current.

Semi-monthly, March 21, 1916–Dec., 1921; monthly, Jan., 1922–Dec., 1923.

Title varies: Jahrg. 1, Mitteilungen der Reichsprüfungsstelle für Lebensmittelpreise; Jahrg. 1, Nr. 13– Jahrg. 3, Nr. 22, Mitteilungen für Preisprüfungsstellen hrsg. von der Volkswirtschaftlichen Abteilung des Kriegernährungsamts; Jahrg. 3, Nr. 23–Jahrg. 4, Nr. 5, same, with bureau in Reichsernärungsamt; Jahrg. 4, Nr. 6–Jahrg. 9, in Reichswirtschaftsministerium.

Money, Credit, and Prices, continued.

Germany. — Wirtschaftsministerium. Mitteilungen, continued.

Index for Jahrg. 7 (1922) contained in Jahrg. 8, Nr. 1.
Lacking: Index for Jahrg. 1, 8.
Occasional combined issues.

Gold Standard Defence Association. Papers. no. 1–17, 19–20, 26–32. London, [1895]–98. 8°. **TFC**

Papers in a discussion with the Bimetallic League, for the other side of which, see Bimetallic League.
no. 1–17 bound in one volume with title: The gold standard, 1895.
1. General statement. [1895.] 7 p.
2. Farrer. The weakness of bimetallism, and the folly of a conference. [1895.] 8 p.
3. To the electors of the United Kingdom. [1895.] 2 p.
4. Bimetallism briefly refuted. [1895.] 4 p.
5. An answer to the Bimetallic League. [1895.] 4 p.
6. The old bimetallism and the new. [1895.] 4 p.
7. Farrer. The measure of value and the metallic currency. [1895.] 12 p.
8. Farrer. England's adoption of the gold standard. [1895.] [12] p.
9. MacLeod, H. D. Gresham's law. [1895.] 12 p.
10. Farrer. Bimetallism and legal tender. [1895.] 8 p.
11. The scientific theory of bimetallism. [1895.] 8 p.
12. MacLeod, H. D. Bimetallism in France. 1895. 8 p.
13. Playfair. The working of bimetallism in the United States. 1895. 8 p.
14. Playfair. What is the appreciation of gold, and what is its effect on the prices of commodities and labour. 1896. 8 p.
15. Helfferich, Karl. Germany and the gold standard. 1896. 8 p.
16. Lubbock, John. Bimetallism considered. 1896. 8 p.
17. Shaw-Lefevre, G. Bimetallism and agricultural depression. 1896. 12 p.
19. White, Horace. The monetary issue in the United States. 1896. 8 p.
20. Spencer, H. H. Bimetallism and the woolen and worsted trades. 1896. 8 p.
26. Walker, B. E. Why Canada is against bimetallism. 1897. 8 p.
27. Guyot, Yves. The bimetallic campaign in France. 1897. [12] p.
28. Shaw-Lefevre, G. The bimetallic report of the Agricultural Commission — a reply. 1897. 28 p.
29. Farrer. The quantitative theory of money and prices. 1898. 10 p.
30. The bimetallic negotiations and their result. 1898. 20 p.
31. Farrer. Has the gold standard made the rich richer and the industrious poorer. 1898. 16 p.
32. The latest phase of the bimetallic movement. 1898. 8 p.

Government counterfeit detector. [Monthly.] v. 26, no. 3–7, 9–10, 12 (July–Nov., 1877, Jan.–Feb., April, 1878); v. 27, no. 1 (June, 1878); v. 29, no. 1, 7–8 (June, Dec., 1880–Jan., 1881); v. 30, no. 3, 9 (Aug., 1881, Feb., 1882); v. 31, no. 9 (Feb., 1883); v. 45, no. 4 (Sept., 1896); v. 46, no. 8 (Jan., 1898); v. 47, no. 1, 5, 8 (June, Oct., 1898, Jan., 1899); v. 48, no. 1–2 (June–July, 1899); v. 51, no. 2, 8 (July, 1902, Jan., 1903); v. 52, no. 2 (July, 1903). Philadelphia, 1877–83; Washington, 1896–1903. 8°. **TF**

v. 31–52 title on cover reads: Dye's Government counterfeit detector.
Editor, John S. Dye.

Great Britain. — Irish Land Commission. Agricultural produce. Return of prices for the years 1881/96–1881/99. Dublin, 1897–1900. f°. **† TFI**

Continued as: Ireland. — Agriculture and Technical Instruction Department. Agricultural statistics, Ireland. Return of prices of certain classes of Irish agricultural products and live stock for the year, *TFI.*

Greece. — Statistikon Grapheion. Δελτίον στατιστικῆς τῶν μέσων τιμων τῶν κυριωτέρων εἰδῶν καταναλώσεως. Bulletin statistique des prix moyens des principaux articles alimentaires. Quarterly. 1912–23. Athènes, 1912–23. f°. **† TFI**

Current.
Greek and French texts in parallel columns.
1912, only first two issues published; 1913–14, annual issues; 1922, first issue lacking from Library file.

Handelsvereeniging te Soerabaja. Marktbericht en prijscourant. *See* **Marktbericht** en prijscourant; Market-report and prices-current.

India. — Commercial Intelligence Department. Variations in Indian price levels. 1861/1911–1861/1912. Calcutta, 1912–13. f°. **†† TFI**

India. — Statistics Department. Prices and wages in India. Issue [3]–5, 7–8, 15–37 (1884–86, 1889–90, 1897–1922). Calcutta, 1885–1923. f°. **TFI** and **†† TFI**

Originally issued by India. — Commercial Intelligence Department.
Issue [3]–5 in *TFI.*
Ceased publication with v. 37.

—— Wholesale and retail (fortnightly) prices; return showing the wholesale and retail prices of cereals, pulses, oilseeds, sugar (raw), salt, etc., in India by districts. 1920 (Jan. 31–Dec. 15); 1921 (Jan. 15–May 31, Aug. 15–Dec. 31); 1922–25. Calcutta, 1920–26. f°. **† TFI**

Current.

Indianapolis Monetary Convention. Proceedings of convention. no. 1–2 (1897–98). [Indianapolis, 1897]–98. 8°. **TF**

no. 1 also includes the history of the movement. Bound in *TF p.v.57, no.17.*
Report of the Convention, 1898, also shelved in *TF.*

International Bimetallic Conference, London, 1894. Report of the proceedings. London, 1894. 8°. **TFD**

German text in: Deutscher Verein für internationale Doppelwährung. Schriften, Heft 19. *TFD.*

International Information Bureau, Washington, D. C. Bulletin. no. 7–40, 42–46, 48–52, 54–88. Washington, 1913–15. 4°. **TF**

Published at irregular intervals.
Ceased publication with no. 88 (July 16, 1915).
Part multigraphed and part printed.

Money, Credit, and Prices, continued.

International Monetary Conference. Conférence monétaire internationale. Procès-verbaux. 1867, 1878, 1881, 1892. Paris, Bruxelles, 1867–92. f°. †† TF

1867 in †† *TF p.v.115, no.8.*

1878 also in English; Proceedings and exhibits, *TF* and †† *TF.*

1881 also in English: Copy of translation of procès-verbaux, *TF;* Proceedings, *TF.*

1892 also in English: Report of the commissioners on behalf of the United States, and journal of their sessions, *TF.*

For conferences held in connection with the Latin Monetary Union, *see* Latin Monetary Union.

International Monetary Standard Association. Occasional papers. no. [1]–12. London, [1882]–86. 8°. TF

1. International Monetary Standard Association. Bi-metallic conference at Cologne. [1882.] 8 p.
2. Gibbs, H. H. The ratio between gold and silver. 1882. 10 p.
3. Goschen, G. J. The appreciation of gold. 1883. 23 p. (Bound in *TF p.v.59, no.8.*)
4. Goschen, G. J. The fall in prices and its explanation. 1883. 27 p.
5. International Monetary Standard Association. Report of the proceedings at the first annual meeting. 1883. 23 p.
6. Gibbs, H. H. The gold question and the fall of prices. 1883. 22 p. (Reprinted from the *National review* of July, 1883.)
7. Barclay, Robert. Foreign competition and the silver question. 1883. 16 p. (Bound in *TF p.v.67, no. 19.*)
8. Schmidt, H. The future of silver. 1885. 34 p.
9. Bankers' Union of Paris and the Provinces. Report upon the monetary question. 1885. 18 p. (Bound in *TF p.v.67, no.20.*)
10. International Monetary Standard Association. Report of the proceedings at the annual meeting, 1886. 1886. 36 p.
11. Grenfell, H. R. Bi-metallism; address. 1886. 16 p.
12. Tidman, P. F. Memorandum on the existing relations between gold and silver as affecting British trade. 1886. 16 p.

Ireland. — Agriculture and Technical Instruction Department. Agricultural prices (Ireland). Return of prices. 1911–12, 1914–15, 1918. Dublin, 1913–19. f°. † TFI

1881/1911 bound in † *TFI p.v.5, no.2.*

Cumulative from 1881.

—— Agricultural statistics, Ireland. Return of prices of certain classes of Irish agricultural products and live stock for the year. 1900–05, 1906/7–1908/9, 1910–15. Dublin, 1901–10; London, 1911–17. 8°. TFI

Continued from: Great Britain. — Irish Land Commission. Agricultural produce, Return of prices. † *TFI.*

Irish Free State. — Ministry of Industry and Commerce. Report on the cost of living. [Quarterly.] Oct., 1922 – Oct., 1925. Dublin, 1922–25. 8°. TFI

Preliminary report issued June, 1922, by Irish Free State. — Cost of Living Committee. *TG p.v. 110, no.11.*

Issues et nouveautés. *See* **Prix** courant.

Latin Monetary Union. Conférence monétaire entre la Belgique, la France, la Grèce, l'Italie et la Suisse. Procès-verbaux. 1874–76, 1878–79, 1885, 1893. Paris, 1874–94. f°. † TF

Title varies: 1878, 1885, Convention et procès-verbaux; 1879, Acte additionnelle... et procès-verbaux; 1893, Arrangement et procès-verbaux.

Complete except for first conference, 1865, which is not in the Library.

For the series of conferences on gold and silver currency, *see* International Monetary Conference.

League of Nations. — Secretariat. Memorandum on currency. 1913/21–1913/24. Geneva, 1922–25. f°. † TF

1913/21 is in *TB p.v.236, no.1.*

Lodi, Italy. Bollettino mercuriale settimanale. anno 1912, no. 1–52; 1913, no. 1–37, 39–52 (Jan. 4 – Sept. 13, 27 – Dec. 27); 1914, no. 1–33, 35–52 (Jan. 3 – Aug. 14, 29 – Dec. 24); 1915, no. 1–53; 1916, no. 1–12, 20–42 (Jan. 8 – March 25, May 20 – Oct. 21). Lodi, 1912–16. f°. † TFI

London weekly market reporter. Jan. 7, 1922 – Dec. 26, 1925. London, 1922–25. f°. ††† TFI

Issued by August Faber and Co.

Lack: March 11, June 24, 1922; Jan. 20, 27, 1923; July 18, 25, 1925.

Market-report and prices-current of import articles and freights. Monthly. v. 46–48 (Feb., 1921 – Jan., 1924). Soerabaja, 1921–24. f°. † TFI

Published by the Commercial Society of Sourabaya, Handelsvereeniging te Soerabaja.

Feb., 1921 – Jan., 1922 called: Year 1921, no. 1–12.

Current.

Dutch ed. has title: Marktbericht en prijscourant van invoer-artikelen en vrachten. † *TFI.*

Marktbericht en prijscourant van invoer-artikelen en vrachten. Monthly. Jahrg. 1921, no. 1–3 (Feb. – April, 1921). Soerabaja, 1921. f°. † TFI

Published by the Handelsvereeniging te Soerabaja.

English ed. has title: Market-report and prices-current of import articles and freights. † *TFI.*

Mexico. — Dirección de Agricultura. Precios máximos y mínimos de efectos de consumo en la República Mexicana. Informes de las agencias de agricultura... 1905 (July – Dec.); 1906 (Jan.). [n. p., 1905–06.] 8°. TFI

Continued as: Mexico. — Secretaría de Fomento. Boletín quincenal. *TFI.*

Mexico. — Secretaría de Fomento. Boletín quincenal. Precios máximos y mínimos de efectos de consumo en la República Mexicana. Informes de las agencias de agricultura... año 1, num. 1–31 (March 18, 1906 – June 18, 1907); año 2, núm. 32–33 (July 5–18, 1907). [n. p., 1906–07.] 8°. TFI

Previously published as: Mexico. — Dirección de Agricultura. Precios máximos y mínimos de efectos de consumo en la República Mexicana. Informes de las agencias de agricultura... *TFI.*

—— Nota de precios de los artículos de mayor consumo en el trimestre. 1907, [no. 3–4] (July – Dec.); 1908, [no. 1] (Jan. – March). Mexico, 1907–08. 8°. TFI

Money, Credit, and Prices, continued.

Milan, Italy. — Camera di Commercio e Industria: Ufficio di Statistica. Numeri indici dei prezzi nel mercato all' ingrosso. [Monthly.] Dec., 1923 – Dec., 1924. Milano, 1924–25. f°. † TFI

Current.

Cumulative from May, 1921.

Lack Jan., Oct., 1924.

Money. Monthly. v. 1–5, no. 2 (May, 1897 – Sept., 1903). New York, 1897–1903. 8°. TF

Ceased publication with v. 5, no. 2, which appeared after a lapse of two years.

Money; a free magazine and forum. [Monthly.] no. 1–27 (1921 – July, 1924). New York, 1921–24. 4°. TF

Suspended publication.

Montagu, Samuel, & Co., London. Annual bullion letter. 1913–20, 1922–25. [London, 1914–26.] 4°. TF

The **Montana** bimetallist. Weekly. v. 1, no. 7, 9–11 (Jan. 21, Feb. 4–18, 1899); v. 2, no. 2–3, 5–6, 10, 12–14, 16 (March 15–22, April 5–12, 19, May 3–17, 31, 1899). Helena, Mont., 1899. f°. ††† TFD

Muentzkonferenz, 1881. *See* **International Monetary Conference.**

Naples, Italy. — Camera di Commercio e Industria. Prezzo corrente delle principali merci sulla piazzo di Napoli. [Weekly.] anno 30, no. 5–19, 47–48 (Feb. 3 – May 12, Nov. 24 – Dec. 1, 1921); anno 31, no. 1–2, 11–15, 21–25, 29–34, 37–44, 47–48, 50–51 (Jan. 5–12, March 16 – April 13, May 25 – July 1, 30 – Sept. 2, 23 – Nov. 11, Dec. 2–9, 23–30, 1922); anno 32, no. 1, 7–26, 36–39, 41–42, 44–52 (Jan. 6, Feb. 17 – June 30, Sept. 8–29, Oct. 13–20, Nov. 3 – Dec. 29, 1923); anno 33, no. 1–3, 5–14, 16–25, 27–28, 30–32, 34–52 (Jan. 5–19, Feb. 2 – April 5, 19 – June 21, July 5–12, 26 – Aug. 9, 23 – Dec. 27, 1924). Napoli, 1921–24. f°. † TFI

Current.

Anno 31, no. 22 covers June 1–10. Thereafter prices are high and low for week, rather than single price for one day.

Anno 33, no. 18–22 (May 3–31, 1924) called: Supplemento alla Revista economica; anno 33, no. 23–52, also called Listino dei prezzi.

National Association of Credit Men. Monthly bulletin. [v. 2], no. 10–12 (Oct. – Dec., 1902); [v. 3] (Feb., 1903 – Jan., 1904); v. 4 (Feb. – Dec., 1904); v. 5–27 (Jan., 1905 – Dec., 1925). 8°, 4°. TFH

Title varies: [v. 2], no. 10–v. 5, no. 2, Monthly bulletin; v. 5, no. 3–v. 22, no. 2, Bulletin; v. 22, no. 3–v. 27, Credit monthly.

Current.

1917 called both v. 17 and v. 19.

v. 22, no. 1–2 (Jan.–Feb., 1920) bound with v. 21 (1919).

Lacking: v. 14, no. 1 (Jan., 1914); v. 26 mutilated (Jan., May issues, 1924).

—— [Publications. no. 1–9.] New York [1901–02]. 12°. TFH

[1.] Marks, M. M. Credit co-operation. [1901.] 13 p.

[2.] Hotchkiss, W. H. The business of making laws. [1901.] 16 p.

[3.] Field, John. Credit association utilities. [1901.] 10 p.

[4.] Tribou, N. M. Greater responsibility. [1901.] [14] p.

[5.] Arguments favorable and unfavorable to credit insurance. Addresses. [1901.] [44] p.

[6.] Bogardus, W. A. H. The strength of the credit man is knowledge. [1902.] 13 p.

[7.] MacWhorter, J. L. Co-operation in collections. [1902.] 13 p.

[8.] Marks, M. M. The safeguards of credit. [1901.] 14 p.

[9.] Troy, Ernst. Cost price, expense, profit. [1901.] 7 p.

The **National** bimetallist. Semi-monthly. v. 1, no. 1–3 (March 25 – April 24, 1897). Washington, D. C., 1897. 4°. † TFD

Editor: 1897, H. F. Bartine.

National bimetallist. Devoted to the complete restoration of bimetallism in the United States. [Weekly.] v. 1, no. 6–7, 12–39, 45, 48, 50, 52 (Nov. 20–27, 1895; Jan. 1 – July 8, Aug. 19, Sept. 9, 23, Oct. 7, 1896). Chicago, 1895–96. 4°. † TFD

no. 22 (March 11, 1896) a special issue on the silver question.

National Monetary Association. Bulletin. no. 1–2. New York, n.d. 8°. TF

no. 1. Money in the United States. 13 p.

no. 2. Foster, W. T. Shall we abandon the gold standard? 28 p.

National Silver Committee. [Publications.] no. 7 (1896). [Chicago, 1896.] 24°. TFD

no. 7. Facts about silver. 1896. 86 p.

National Silver Convention. Proceedings. 1–2 (1889, 1892). St. Louis, 1889; Washington, 1892. 12°. TFD

New York Credit Men's Association. Bulletin. [Monthly.] v. [1]–3, no. 11 (June, 1907 – April, 1910); v. 4 (June, 1910 – May, 1911); v. 5, no. 2–5, 7–8, 10–12 (July – Oct., Dec., 1911 – Jan., March – May, 1912); v. 6–7 (June, 1912 – May, 1914); v. 8, no. 1–2, 4–12 (June – July, Sept., 1914 – May, 1915); v. 9–14, no. 5 (June, 1915 – Oct., 1920); v. 15, no. 7–12 (July – Dec., 1921); v. 16–18 (Jan., 1922 – Dec., 1924). [New York,] 1907–24. 8°. TFH

Current.

Peru. — Dirección de Estadística. Estadística de precios y numeros-indicadores. 1920, 1925. Lima, 1920–25. 8°. TFI

1920 was first issue. This contains semi-annual figures, 1909–14; quarterly, 1915–19; monthly, Jan. – March, 1920. 1925 edition contains quarterly figures, 1915–19; monthly, 1920–24.

Money, Credit, and Prices, continued.

Present problems. Semi-monthly. v. 1, no. 1–9, 11, 13–15. New York, 1896–97. 16°. **TF**

v. 1, no. 1. Dembitz, L. N. The free coinage problem. Aug. 1, 1896. 48 p.

v. 1, no. 2. Hull, A. P. A horrible crime: the demonetization of iron 2,200 years ago. Graham, Whidden. "16 to 1" in Egypt. Aug. 15, 1896. 16 p.

v. 1, no. 3. Warner, J. D. "Free coinage" dissected. Sept. 1, 1896. 32 p.

v. 1, no. 4. Warner, J. D. Wages vs. 16 to 1. Sept. 15, 1896. 32 p.

v. 1, no. 5. Yeamen, G. H. The silver standard. Oct. 1, 1896. 32 p.

v. 1, no. 6. Procter, J. R. The dollar of the fathers. Oct. 15, 1896. 16 p.

v. 1, no. 7. A free coinage catechism. Nov. 1, 1896. 24 p. (Reprinted from *The Evening Post.*)

v. 1, no. 8. Free coinage and the farmer. Nov. 15, 1896. 24 p.

v. 1, no. 9. Buck, Jedediah, ed. Silas Balsam's letters on law, repudiation, and honor. Dec. 1, 1896. 16 p.

v. 1, no. 11. Nichols, Acosta. The value and effects of the free coinage dollar. Jan. 1, 1897. 16 p.

v. 1, no. 13. Warner, J. D. Wages vs. 16 to 1; 2d ed. Feb. 1, 1897. 23 p.

v. 1, no. 14. Patterson, C. S. An argument for the gold standard. Feb. 15, 1897. 15 p.

v. 1, no. 15. Powers, F. P. Jefferson and Jackson on present problems. March 1, 1897. 16 p.

Le Prix courant. [Weekly.] v. 39–48 (1906–Dec. 24, 1915); 29–39 (Dec., 1915–March, 1926). Montreal, 1906–26. f°. **† TFI**

Current.

Volume numbering irregular: 1916–date miscalled v. 29–date, duplicating previous volume numbering. v. 37, no. 5 (Feb. 1, 1924), has extra pages, p. 22 a–h.

Lack: v. 37, no. 22 (May 30, 1924).

Monthly supplement, Issues et nouveautés, Jan., 1925 to March, 1926. Included in regular paging.

Producers' price-current. [Daily except Sunday.] v. 60, no. 179–v. 68 (July 2, 1917–Dec., 1925). New York, 1917–25. f°. **† TFI**

Current.

Lack: v. 60, no. 297, 305, 312–313 (Oct. 31, Nov. 9, 16, 1917); v. 61, no. 6, 299, 325 (Jan. 6, Nov. 3, Dec. 1, 1918); v. 63, no. 292, 336 (Oct. 25, Dec. 10, 1920); v. 64, no. 32, 144, 277, 279 (Feb. 3, May 30, Oct. 12, 14, 1921); v. 65, no. 89, 196 (April 3, July 21, 1922); v. 66, no. 1–2, 75, 191, 253, 272, 303 (Jan. 2–3, March 19, July 16, Sept. 18, Oct. 8, Nov. 9, 1923); v. 68, no. 36–39, 44–45, 55, 58, 62, 65–66, 199–201, 215 (Feb. 6–9, 15–16, 27, March 2, 6, 9–10, July 25–27, Aug. 10, 1925).

v. 60, no. 306; v. 65, no. 326; v. 67, no. 160, omitted from numbering. In v. 63–65 occasional gaps in numbering but not in date, due to the weekly publication of an extra edition not in the Library.

Some issues in poor condition.

Supplements:

Special apple section. v. 66, no. 209, 222, 229 (Aug. 3, 17, 24, 1923); v. 67, no. 216, 230, 250, 264 (Aug. 8, 22, Sept. 12, 26, 1924); v. 68, no. 204, 233, 253, 285 (July 30, Aug. 28, Sept. 18, Oct. 21, 1925).

Special poultry section. v. 67, no. 306, 311 (Nov. 8, 14, 1924); v. 68, no. 304, 332 (Nov. 10, Dec. 9, 1925).

Public welfare. Leaflet. no. 1–2, 4–8. [London, 1921–22.] 8° and 4°. **TFH**

1. Old Cole's bakehouse. [1921.] [2] p.
2. The hand that writes the bank draft rules the world. [1921?] [4] p.

Public Welfare, continued.

4. War. [1921.] [4] p.
5. Trade union finance. 1921. [4] p.
6. Why your income is threatened. 1922. [3] p.
7. Finance versus agriculture. [1922.] [8] p.
8. Great Britain's debt to America: the method of repayment. Correspondence between C. H. Douglas and the Prime Minister. [1922.] [3] p.

Reform Club. — Sound Currency Committee. Sound currency. *See* **Sound** currency.

Robert Morris Associates. Monthly bulletin. v. 5–7 (June, 1922–May, 1925). Lansdowne, Pa., 1922–25. 8°. **TFH**

Current.

Lack: v. 5, no. 5–6 (Oct.–Nov., 1922).

Contain proceedings of semi-annual meetings, June, Dec., 1922–24 (in July and December issues).

1922 includes reprint of an article in the November issue: Wooley, G. C., Another three C's — cotton, cooperatives and credits. [6 p.]

Rumania. — Direcţiunea Generală a Statisticei. (Ministerul Industriei şi Comerţului). Statistica preţurilor... Statistique des prix. Anului 1921–23, 1925. [Bucureşti,] 1922–26. f°. **† TFI**

Rumanian and French texts in parallel columns.

Schweizerischer Bauernverband. Bericht über den internationalen Markt für Milch und Molkereiproduckte. Bearbeitet von der Preisberichtstelle des schweizer. Bauernverbandes. [Quarterly.] no. [2] (1909); 6 (1910); 13 (1912); 17, 19–20 (1913); 21–24 (1914); 25 (1915). [Brugg, Schweiz, 1909–15.] 12°. **TFI**

Published in French under title: Union suisse des paysans. Rapport sur le marché international des laits et de produits laitiers. *TFI.*

Extract in English published under title: Union suisse des paysans. The international market of milk and dairy products. Extract of the report. *TFI.*

—— The international market of milk and dairy products. Extract of the report. [Quarterly.] no. 10 (1911); [13] (1912); 17, 20 (1913); 21–32 (1914–16); 33–34, 36 (1917); 44 (1919); 45 (1920); 55–56 (1922); 57 (1923); 62 (1924); 66 (1925). [Brugg, Switzerland, 1911–25.] 8°. **TFI**

no. [10] (1911) in *VPQ p.v.15, no.8;* no. [13] (1912), in *TF p.v.93, no.8.*

Complete report published in German under title: Union suisse des paysans. Bericht über den internationalen Markt für Milch und Molkereiproduckte, *TFI;* and also in French under title: Union suisse des paysans. Rapport sur le marché international des laits et des produits laitiers, *TFI.*

—— Rapport sur le marché international des laits et des produits laitiers. [Quarterly.] no. 4 (1909/10); 10 (1911); 20 (1913); 21–36 (1914–17); 37, 39–40 (1918); 41, 44 (1919); 45, 47–48 (1920); 49–56 (1921–22); 57 (1923); 61–64 (1924); 65–66 (1925). [Brougg, Suisse, 1910–25.] 8°. **TFI**

Published in German under title: Union suisse des paysans. Bericht über den internationalen Markt für Milch und Molkereiproduckte, *TFI.*

Extract in English published under title: Union suisse des paysans. The international market of milk and dairy products. Extract of the report, *TFI.*

Money, Credit, and Prices, continued.

Servia. — Uprava Drzhavne Statistike. Statistique des prix des produits, agricoles et autres. v. 1 (1890–95); v. 3 (1901–05). Belgrade, 1897–1906. f°. † TFI

Text and title also in Servian.

Silver knight and national watchman. [Weekly.] v. 7, no. 210–219, 221–227 (July 2 – Sept. 3, 17 – Oct. 29, 1896); v. 8, no. 228–229, 231–233, 237, 245, 247, 250–251, 253–255, 257, 259–268 (Nov. 5–12, 26 – Dec. 10, 1896, Jan. 7, March 4, 18, April 8–15, 29 – May 13, 27, June 10 – Aug. 12, 1897). Washington, 1896–97. f°. ††† TFC

Skandinaviska Kreditaktiebolaget. Styrelse- och revisionsberättelse öfver...forvaltning [en] Räkenskapsåret. 40–44, 46–52, 54–59 (1903–07, 1909–15, 1917–22). [Göteborg, 1904–1923.] 8°. TFH

Report 55 (1918) also in English.

Social credit leaflets. no. 1–3. London, n.d. 8°. TFH

Published for the Social Credit movement by the Credit Research Library.

Editor: H. E. Cousens.

no. 1. Douglas, C. H. Unemployment and waste. 4 p.

no. 2. Economania and the teacher. 8 p.

no. 3. Faithfull, T. J. Agriculture and credits. 14 p.

Social Credit Movement. Social credit leaflets. *See* **Social** credit leaflets.

Sound currency. v. 1, no. 1–2 (April 15 – May 1, 1891); v. 2–10 (Dec. 1, 1894 – Dec., 1903); v. 11, no. 1–4 (March, June, Sept., 1904, March, 1905). New York, 1891–1905. 8°. TF

Semi-monthly, v. 1–5 (April 15, 1891 – Dec. 15, 1898); monthly, v. 6–7 (Jan., 1899 – Dec., 1900); quarterly, v. 8–11 (March, 1901 – March, 1905).

Published by the Reform Club. Sound Currency Committee.

Ceased publication with v. 11, no. 4.

Sound currency. A compendium of accurate and timely information on currency questions intended for writers, speakers and students. [Year] 1895–96. New York, 1895–96. 8°. TF

Published by the Reform Club Sound Currency Committee.

A compilation of issues of the semi-monthly publication of the same name reprinted.

Popular title: Sound currency red book.

Sound Currency Association. Annual meeting and public meeting. 1921–22, 1924. [London, 1921–24.] 8°. TF

Sound money. Monthly bulletin of the National Sound Money League. v. [1], no. 1–3, 5–6, 8–12 (April – June, Aug. – Sept., Nov., 1897 – March, 1898); v. 2, no. 1–2, 4–5, 7–8, 10–12 (April – May, July – Aug., Oct. – Nov., 1898, Jan. – March, 1899); v. 3, no. 1–5, 11–12 (April – Aug., 1899, Feb. – March, 1900); v. 4, no. 1–3 (April – June, 1900). Chicago, 1897–1900. f°. †† TF

Sound Money League of Pennsylvania. Document. no. 1, 6–7, 10–12, 14. Philadelphia [1895–96?]. 8°. TF

1. Report of the proceedings of the Sound Money meeting...May 28, 1895. n.d. 66 p.

6. Shipley, S. R. Gold, silver, and money. n.d. 17 p.

7. The action of the Union League of Philadelphia. Speeches of C. S. Patterson, William Potter, C. F. Warwick. n.d. 40 p.

10. Brosius, Marriott. The money unit of 1792. n.d. 19 p.

11. Brosius, Marriott. To the farmers. An argument for sound money. n.d. 20 p.

12. Atkinson, Edward. The cost of bad money. n.d. 26 p.

14. Clark, Ellis. The future price of silver. n.d. 29 p.

South Dakota. — Rural Credit Board. Circular. no. 1–2, 4. Pierre, n.d. 8°. TFH

1. South Dakota. — Statutes. The laws of South Dakota establishing a system of rural credits. 12 p.

Reprint of a 1917 law.

2. South Dakota. — Courts: Supreme Court. Opinion... Rural credits act... [1917.] 11 p.

4. South Dakota. — Statutes. The laws of South Dakota establishing a system of rural credits... 16 p.

From a law of 1919.

Udine, Italy. — L'Ispettore di Polizia Municipale. Notifica dei prezzi fatti in questo comune. 1912, no. 1–2, 4–13, 15–17, 19–36 (Jan. 8–15, 29 – April 1, 15–29, May 13 – Sept. 9, 1912). Udine, 1912. f°. ††† TFI

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Union suisse des paysans. *See* **Schweizerischer Bauernverband.**

United States. — Bureau of Labor Statistics. Wholesale prices of building materials. Bureau of Labor Statistics figures. [Monthly.] Dec., 1921 – July, Oct., 1922 – May, 1923. [Washington, 1921–23.] 4°. TFI

Chart prepared by...Division of Building and Housing of Bureau of Standards.

—— Wholesale prices of commodities. Sept., 1923 – Nov., 1925. Washington, D. C., 1923–25. 8°. TFI

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Lack Dec., 1923.

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Multigraphed.

Publication suspended June, 1920.

Money, Credit, and Prices, continued.

United States. — Markets Bureau. Daily market news bulletin. Apples. 1917/18, no. 1–91, 93–142, 144–172 (Sept. 5 – Dec. 20, 22, 1917 – Feb. 23, 26 – March 30, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.

—— Daily market news bulletin. Bunched vegetables. 1917/18, no. 1–6, 8, 10–24, 26–28, 30–49, 51–83 (Dec. 18–26, 28, 1917, Jan. 2–18, 21–23, 25–Feb. 23, 26 – April 5, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Numbering irregular.

—— Daily market news bulletin. Cabbage. 1917/18, no. 1–23, 25–123, 125–129, 131–159 (Sept. 19 – Oct. 15, 17, 1917 – Feb. 15, 18–23, 26 – March 30, 1918); 1918, no. 1–89, 91–93, 99–117 (April 1 – Aug. 5, 7–9, 10–31, 1918). Washington, 1917–18. f°.
Multigraphed. † TFI

—— Daily market news bulletin. Cantaloupes. 1917, no. 1–50, 52–86, 88–100 (June 11 – Sept. 20, 22 – Oct. 6, 1917); 1918, no. 1–45, 47–82 (May 27 – July 19, 22 – Aug. 31, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Lacking: 1917: p. 1–2, no. 78 (Sept. 11, 1917); 1918: p. 1, no. 21 (June 20, 1918); p. 1–2, no. 24 (June 24, 1918); 1–2, no. 65 (Aug. 12, 1918).
no. 50 omitted from 1917 numbering.

—— Daily market news bulletin. Celery. 1917/18, no. 1–102, 104–138 (Oct. 22, 1917 – Feb. 23, 26 – April 6, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Lacking: p. 1, no. 18 (Nov. 10, 1917); p. 1, no. 114 (March 9, 1918).

—— Daily market news bulletin. Dry beans. 1917/18, no. 7, 9–22, 24–33, 35–70, 72–100, 102–130 (Oct. 24, 29 – Nov. 14, 16–28, Dec. 1, 1917 – Jan. 18, 21 – Feb. 23, 26 – March 30, 1918). Washington, 1917–18. f°.
Multigraphed. † TFI

—— Daily market news bulletin. Grapefruit. 1917/18, no. 1–33, 35, 37–39, 41–46, 48–65, 67–77, 79–87, 89–105 (Dec. 5, 1917 – Jan. 16, 18, 21–23, 25–31, Feb. 2–23, 26 – March 9, 12–21, 22 – April 13, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Lacking: p. 1, no. 13 (Dec. 19, 1917); p. 1–2, no. 95 (April 2, 1918); p. 1, no. 103 (April 11, 1918).

—— Daily market news bulletin. Grapes. 1917, no. 2–29, 31–50 (Sept. 12 – Oct. 15, 17 – Nov. 8, 1917); 1918, no. 1–23, 25–41 (July 16 – Aug. 10, 13–31, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Numbering irregular.
Lacking: 1918, p. 1, no. 21 (Aug. 8, 1918).

—— Daily market news bulletin. Lettuce. 1917/18, no. 1–3, 5–65, 67–81 (Dec. 3–5, 7, 1917 – Feb. 21, 23 – March 13, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Lacking: p. 1, no. 30 (Jan. 10, 1918).

—— Daily market news bulletin. Mixed vegetables. 1917/18, no. 3–40, 42–48, 50–65, 67–90, 100–102, 104–135, 137–141, 143–168 (Dec. 5, 1917 – Jan. 23, 25 – Feb. 1, 4–23, 26 – March 25, 26–28, 30 – May 9, 11–16, 18 – June 18, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Numbering irregular.

—— Daily market news bulletin. Onions. 1917/18, no. 37–143, 145–164, 166–217, 219–239 (May 14 – Sept. 20, 22 – Oct. 15, 17, 1917 – Jan. 21, 29 – March 30, 1918); 1918, no. 1–79, 81–130 (April 1 – July 2, 5 – Aug. 31, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Numbering irregular.
Lacking: 1917: p. 1, no. 169 (Oct. 20, 1917); p. 1–2, no. 120 (Feb. 1, 1918); 1918: p. 1–2, no. 22 (April 25, 1918); p. 1, no. 41 (May 17, 1918); p. 1–2, no. 72 (June 24, 1918); p. 1–2, no. 76 (June 28, 1918).

—— Daily market news bulletin. Oranges. 1917/18, no. 1–24, 26–39, 41–65, 67–68, 70–95 (Dec. 5, 1917 – Jan. 5, 8–23, 25 – Feb. 23, 26–27, March 1–30, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Lacking: 1917, p. 1, no. 20 (Dec. 29, 1917).

—— Daily market news bulletin. Peaches. 1917, no. 1–14, 16–44, 46–106 (June 18 – July 5, 7 – Aug. 9, 10 – Oct. 20, 1917); 1918, no. 1–22, 24–65, 67–88 (May 20 – June 14, 17 – Aug. 5, 7–31, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Lacking: 1917: p. 1–2, no. 79 (Sept. 19, 1917); 1918: p. 1–2, no. 14 (June 5, 1918); p. 1, no. 42 (July 9, 1918); p. 1–2, no. 62 (Aug. 1, 1918); p. 1–2, no. 64 (Aug. 3, 1918); p. 1, no. 72 (Aug. 13, 1918).

—— Daily market news bulletin. Strawberries. 1917, no. 37–71 (May 14 – June 23, 1917); 1918, no. 1–11, 13–72 (March 26 – April 6, 9 – June 18, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
Lacking: 1918, p. 1–2, no. 60 (June 4, 1918).

—— Daily market news bulletin. Sweet potatoes. 1917/18, no. 1–28, 30–50, 52–131, 133–160, 162–174 (Aug. 15 – Sept. 18, 20 – Oct. 15, 17, 1917 – Jan. 23, 25 – March 16, 1918); 1918, no. 1–6, 8–23 (Aug. 5–10, 13–30, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.
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—— Daily market news bulletin. Tangerines. 1917/18, no. 2–39, 41–52 (Dec. 6, 1917 – Jan. 23, 25 – Feb. 8, 1918). Washington, 1917–18. f°. † TFI
Multigraphed.

—— Daily market news bulletin. Tomatoes. 1917, no. 37–120 (May 14 – Aug. 21,

Money, Credit, and Prices, continued.

1917); 1918, no. 1–24, 26–56, 58–130 (March 11 – April 6, 9 – May 14, 16 – Aug. 10, 1918). Washington, 1917–18. f°. † TFI

Multigraphed.

Lacking: 1918, p. 1, no. 71 (June 1, 1918); p. 1–2, no. 79 (June 11, 1918); p. 1, no. 116 (July 25, 1918).

—— Daily market news bulletin. Watermelons. 1917, no. 1–27, 29–81 (June 4 – July 5, 7 – Sept. 8, 1917); 1918, no. 1–3, 5–25, 27–59, 61–76 (May 27 – 29, June 1–25, 27 – Aug. 5, 7–24, 1918). Washington, 1917–18. f°. † TFI

Multigraphed.

Lacking: 1918, p. 1, no. 69 (Aug. 16, 1918).

—— Daily market news bulletin. White potatoes. 1917/18, no. 20–63, 65–147, 149–254, 256–296 (May 14 – July 5, 7 – Oct. 15, 17, 1917 – Feb. 23, 26 – April 13, 1918); 1918, no. 1–95, 97–118 (April 15 – Aug. 5, 7–31, 1918). Washington, 1917–18. f°. † TFI

Multigraphed.

Lacking: 1917/18: p. 1, no. 133 (Sept. 28, 1917); p. 1–2, no. 185 (Nov. 28, 1917); p. 1–2, no. 190 (Dec. 5, 1917); p. 1–2, no. 290 (April 6, 1918); 1918: p. 1–2, no. 1 (April 15, 1918); p. 1–2, no. 28 (May 16, 1918).

United States. — Standards Bureau: Building and Housing Division. Building material prices. Aug., 1921 – Dec., 1925. [Monthly.] Washington, 1921–25. ob. f°. † TFI

Current.

Mimeographed.

Lack March – April, 1923.

United States. — Treasury Department: Secret Service Division. Circular letter. no. 428–429, 431, 436, 452–455, 458–471, 473–482, 482 suppl., 483–484, 491, 511–514, 516–528, 530, 538, 540–549, 551–573 (April 30, 1919 – Dec. 21, 1925). Washington, 1919–25. 4°. TF

Current.

Published irregularly.

Two letters numbered 469.

United States. — War Finance Corporation. Circular. no. 1–2 (May 14 – Sept. 1, 1921). Washington, D. C., 1921. f°. † TFH

United States. — War Industries Board. Price bulletin. no. 1–57. Washington, 1919–20. 8°. TFI

1. Mitchell, W. C. History of prices during the war. 1919. 95 p.
2. Mitchell, W. C. International price comparisons. 1919. 395 p.
3. Garrett, P. W. Government control over prices. 1920. 834 p.
4. Wildman, M. S. Prices of foods. 1919. 19 p.
5. Curran, J. M. Prices of clothing. 1919. 20 p.
6. Hoyt, Homer. Prices of building materials. 1919. 20 p.
7. Breithut, F. E. Prices of chemicals. 1919. 31 p.
8. Maxwell, L. W. Prices of feed and forage. 1919. 21 p.
9. Peltason, P. E. Prices of wheat and wheat products. 1919. 22 p.
10. Bruning, H. F. Prices of corn and corn products. 1919. 19 p.

United States. — War Industries Board. Price bulletin, continued.

11. Willard, H. R. Prices of oats, rice, buckwheat and their products. 1919. 23 p.
12. Maxwell, L. W. Prices of barley, hops, rye and their products. 1919. 17 p.
13. Anderson, F. F. Prices of sugar and related products. 1919. 23 p.
14. Wildman, M. S. Prices of vegetable and truck. 1919. 18 p.
15. Prices of edible vegetable oils. 1919. 16 p.
16. Prices of fruits, nuts, and wine. 1919. 15 p.
17. Wood, D. E. Prices of spices and condiments. 1919. 12 p.
18. Shaulis, L. L. Prices of tea, coffee, and cocoa. 1919. 18 p.
19. Shaulis, L. L. Prices of tobacco and tobacco products. 1919. 20 p.
20. Barber, W. A. Prices of live stock, meats, and fats. 1919. 44 p.
21. Barber, W. A. Prices of poultry and dairy products. 1919. 35 p.
22. Hotchkiss, I. H. Prices of fish and oysters. 1919. 20 p.
23. Rogers, J. H. Prices of cotton and cotton products. 1919. 57 p.
24. Snodgrass, Katharine. Prices of wool and wool products. 1919. 53 p.
25. Ryder, O. B. Prices of silk and silk products. 1919. 49 p.
26. James, A. E. Prices of hides and skins and their products. 1919. 49 p.
27. Heacock, J. L. Prices of hatter's fur and fur felt hats. 1919. 13 p.
28. Heacock, J. L. Prices of hair, bristles, and feathers. 1919. 19 p.
29. Curran, J. M. Prices in the button industry. 1919. 22 p.
30. Lubin, I. Prices of rubber and rubber products. 1919. 35 p.
31. Averill, W. A. Prices of paper. 1919. 25 p.
32. Coates, Jane. Prices of fibers and fiber products. 1919. 29 p.
33. Stewart, W. W. Prices of iron, steel, and their products. 1919. 45 p.
34. Aldrich, H. R., and Jacob Schmuckler. Prices of ferroalloys, nonferrous and rare metals. 1919. 90 p.
35. Lesher, C. E. Prices of coal and coke. 1919. 115 p.
36. Pogue, J. E. Prices of petroleum and its products. 1919. 55 p.
37. Danforth, M. L. Prices of matches. 1919. 9 p.
38. Hoyt, Homer. Prices of clay products. 1919. 20 p.
39. Kotsrean, W. J. Prices of sand and gravel. 1919. 8 p.
40. Hoyt, Homer. Prices of quarry products. 1919. 15 p.
41. Hoyt, Homer. Prices of cement. 1919. 11 p.
42. Boothe, V. B. Prices of glass. 1919. 11 p.
43. Bryant, R. C. Prices of lumber. 1919. 112 p.
44. Minnick, A. Prices of paints and varnishes. 1919. 25 p.
45. Lewenberg, H. L. Prices of mineral acids. 1919. 18 p.
46. Lewenberg, H. L. Prices of heavy chemicals. 1919. 20 p.
47. Meldrum, W. B. Prices of miscellaneous inorganic chemicals. 1919. 24 p.
48. Trumbull, H. L. Prices of fertilizers. 1919. 21 p.
49. Trumbull, H. L. Prices of soaps and glycerin. 1919. 20 p.
50. Meldrum, W. B. Prices of essential oils, flavoring and perfumery materials. 1919. 21 p.
51. Carleton, P. W. Prices of wood distillation products and naval stores. 1919. 16 p.
52. Carleton, P. W. Prices of natural dyestuffs and tanning chemicals. 1919. 15 p.

Money, Credit, and Prices, continued.

United States. — War Industries Board. Price bulletin, continued.

53. Jones, W. N., and F. W. Cassebeer. Prices of coal-tar crudes, intermediates, and dyes. 1919. 32 p.
54. Lewis, W. L., and F. W. Cassebeer. Prices of drugs and pharmaceuticals. 1919. 24 p.
55. Lewis, W. L., and F. W. Cassebeer. Prices of proprietary preparations. 1919. 13 p.
56. Fry, C. L. Prices of explosives. 1919. 26 p.
57. Minnick, Arthur. Prices of miscellaneous organic chemicals. 1919. 18 p.

United States. — War Industries Board: Planning and Statistics Division. Bulletin of monthly prices during the war. no. 2–3 (Nov. – Dec., 1918). [Washington, 1918.] 4°. **TFI**

Multigraphed.
Ceased publication.

United States. — War Industries Board: Price Section. Price fixing bulletin. no. 1–10 (Aug. – Dec., 1918). [Washington, 1918.] 4°. **TFI**

Typewritten.
1. Non-ferrous metals. [23] p.
2. Rubber. [13] p.
3. Chemicals. [38] p.
4. Rags. [21] p.
5. Iron and steel. 54 p.
6. Building materials. 27 p.

United States. — War Industries Board: Price Section. Price fixing bulletin, cont'd.

7. Cordage fibers. 20 p.
8. Fertilizer. 33 p.
9. Wool and woolen goods. 44 p.
10. Fluctuations of controlled and uncontrolled prices. 54 p.

Wirtschaftstatistisches Bureau von Richard Calwer, Berlin. Monatliche Übersichten über Lebensmittelpreise. Jahrg. 1 – Jahrg. 2, Heft 6, 8–12 (Jan., 1911 – June, Aug. – Dec., 1912); Jahrg. 3 – Jahrg. 4, Heft 5, 7–8, 10–12 (Jan., 1913 – May, July – Aug., Oct. – Dec., 1914); Jahrg. 5, Heft 1, 3 – Jahrg. 6 (Jan., March, 1915 – Dec., 1916); Jahrg. 7, Heft 1–5, 8 – Jahrg. 8 (Jan. – May, Aug., 1917 – Dec., 1918); Jahrg. 9, Heft 3, 5, 8, 11 (March, May, Aug., Nov., 1919); Jahrg. 10 – Jahrg. 11, Heft 1–4, 7–8, 11–12 (Jan., 1920 – April, July – Aug., Nov. – Dec., 1921); Jahrg. 12, Heft 1–4, 6–12 (Jan. – April, June – Dec., 1922). Berlin, 1911–22. ob. 8°.

Ceased publication. **† TFI**

Yearbook of exchange rates of the world. 1914/21, v. 1–3; 1922. Christiania [1922–23]. 8°. **TFG**

Title in English, French, German, and Norwegian.
Title varies: 1914/21, v. 1–3, Exchange rates of the world; 1922, Yearbook of exchange rates of the world.
Editor: 1914/21–22, Emil Diesen.

INSULATING OIL
(1900–1925)

A LIST OF REFERENCES IN THE NEW YORK PUBLIC LIBRARY

Compiled by Arthur W. Fyfe, Jr.
Science and Technology Division

With Introduction by J. L. R. Hayden
Research Engineer, General Electric Company

INTRODUCTION

By J. L. R. Hayden

INSULATION is by far the most important problem in the design of electrical apparatus, and its importance has rapidly increased during the past few years due to the advance of the electrical engineering art, particularly in the field of high voltage distribution.

The subject of insulation may readily be divided into three classes, namely, gas, solid, and liquid. Air is known to be by far the most important gas insulation commercially, it seeming to have a definite dielectric strength. The solid insulations used most commonly at present include rubber, varnished cambric, paper and mica. The liquid insulation which has proven to be of greatest value is oil, it being utilized for the insulation of electrical apparatus operating at very high voltages, such as switches, transformers, etc.

The purpose of insulation is to conduct little or no current when subjected to a voltage stress, that is, it should be of exceedingly high resistance. When insulation ceases to accomplish this it is of no further value. Therefore, in order to determine when insulation will become conducting or break down, and also properly to design insulation which will not deteriorate and eventually break down, it is quite essential that the basic causes of insulation break down, or, in other words, the mechanism of break down, be known.

The mechanism of break down of oil is unknown, and to date no theory has been advanced that will satisfactorily explain the behaviour of oil under disruptive dielectric stress. When such a theory has been developed, or when the causes of erratic behaviour and unreliability of oil are known, then it will be possible to improve the electrical characteristics of oil or develop a suitable substitute.

A great deal of work has and is being done on the study of the electrical properties of oils, and, in view of the above, this compilation published by The New York Public Library should be of great value to every engineer and chemist interested in the further development of insulating oil.

THE LIST

This list includes books and periodical literature available in the Reference Department of The New York Public Library on March 1, 1926, excluding publications prior to 1900, and subsequent to 1925.

By the term "Insulating oils" it is intended to include the oils, and substitutes for oils, used in transformers, electrolytic arresters and feeder regulators as an insulating and cooling medium and in oil-switches and oil-immersed fuses as an insulating and arc-extinguishing medium.

The subject of insulating oils being but a specialized study of mineral oils in general put to a particular use, it is apparent that much of the subject matter of the general study of lubricating oils is of value, but no attempt has been made to cover this wider field except where methods or results of investigations are particularly of value to the study of insulating oils.

No attempt has been made to cover patent records.

Liberal use of the abstract journals has been made in annotating, references therein being indicated beneath the main entry. To Mr. William F. Jacob, librarian of the General Electric Company, at Schenectady, New York, thanks are due for placing at the disposal of the compiler the facilities of the library.

PART I

1900

1. **Almy, J. E.** Ueber die Funkenpotentiale in festen und trofbar flüssigen Dielektricis. ([Poggendorff's] Annalen der Physik, Leipzig, Folge 4, Bd. 1, 1900, p. 508–529.) **PAA**

Abstracted in *Science abstracts*, London, v. 3, 1900, p. 478, *PAA; Elektrotechnische Zeitschrift*, Berlin, Jahrg. 21, 1900, p. 313, † *VGA; Electrical world*, New York, v. 35, 1900, p. 755, † *VGA*.

Account of a series of tests to determine potentials at which discharge occurred with various dielectrics. Turpentine, petroleum, xylol, and benzol were the liquids used; for these the potential was found to be a linear function of their thickness.

2. **On** the use of oil in transformers. (American electrician, New York, v. 12, 1900, p. 103.) **† VGA**

Reprinted from bulletin of the Pittsburgh Transformer Co. Discusses the application of oil to transformers, causes of oxidation and capillarity through leads.

3. **Schweidler,** Egon, Ritter von. Über das Verhalten flüssiger Dielektrika beim Durchgange eines elektrischen Stromes. (Kaiserliche Akademie der Wissenschaften. Sitzungsberichte: Mathematisch-naturwissenschaftliche Classe. Wien, 1900. Bd. 109, Heft 2, Abt. 2a, p. 964–973.) *** EF**

Same in [Poggendorff's] *Annalen der Physik*, Leipzig, Folge 4, Bd. 4, 1901, p. 307–315, *PAA*. Abstracted in *Science abstracts*, London, v. 4, 1901, p. 1037–1038, *PAA*.

A current is passed through pure commercial toluol and measured, a known voltage being applied. With voltages of from 5- to 300-volts the current decreased with time, first rapidly, then more slowly; this is ascribed to fatigue of the dielectric. Recovery from this fatigue was noted after a period of rest. For comment by Warburg see [Poggendorff's] *Annalen der Physik*, Leipzig, Folge 4, Bd. 4, p. 648; see also Bd. 5, p. 483–486.

4. **Wirt,** H. The latest development in transformer design and operation. (Journal of electricity, San Francisco, v. 10, 1900, p. 42–47.) **† VGA**

Discusses the heating of transformers, function of oil as a cooling medium, and the testing of oil.

1901

5. **Drouin,** F. Influence de l'huile sur les propriétés isolantes du mica. (L'Électricien, Paris, série 2, tome 21, 1901, p. 116–117.) **† VGA**

6. **Kessler.** Insulation and insulating material. (Electrical world, New York, v. 38, 1901, p. 948.) **† VGA**

Abstract of paper printed in *Rose Tech*, Nov., 1901. "There is probably little difference in the insulation of perfectly dry mineral oils ranging from benzine to the very heavy oils. Both of these advantages are questions of viscosity, as the lighter oil circulates

1901, continued.

much more rapidly, exposes fresh portions continually to the dielectric stress and carries off the heat. Light oils cannot be used, however, on account of increased fire risk, and a mineral oil must be chosen which will be neither too viscous nor too light."

7. **Moloney,** T. O. Effect of oil on the insulating qualities of mica. (Electrical review, New York, v. 38, 1901, p. 107.) † **VGA**

Abstracted in *Science abstracts,* London, v. 4, 1901, p. 394, *PAA.*

Samples of mica were subjected to breakdown voltage before and after being coated with paraffin oil; the normal dielectric value of the sample was reduced from 16,000-volts to 9,000-volts alternating current.

8. **O'Gorman,** Mervyn. Insulation on cables. (Appendix I.) (Institution of Electrical Engineers, Journal, London, v. 30, 1901, p. 666–669.) † **VGA**

Abstracted in *Science abstracts,* London, v. 4, 1901, p. 714–715, *PAA.*

Gives in tabulated form the dielectric properties of the chief insulating solids, liquids, and gases.

9. **Schweidler,** Egon, Ritter von. Ueber das Verhalten flüssiger Dielektrika beim Durchgange eines elektrischen Stromes. ([Poggendorff's] Annalen der Physik, Leipzig, Folge 4, Bd. 5, 1901, p. 483–486.) **PAA**

A further study of dielectric fatigue. Liquids used were toluol, benzol, petroleum, benzine and hexane. For earlier work see Folge 4, Bd. 4, 1901, p. 307–315; comment on p. 648.

10. **Sessions,** W. S. On the cooling of transformers. (Journal of electricity, San Francisco, v. 11, 1901, p. 264–265.) † **VGA**

Abstracted in *Electrical world,* New York, v. 39, 1902, p. 133, † *VGA; Science abstracts,* London, v. 5, 1902, p. 335, *PAA.*

Overheating of transformers was remedied by pumping the oil through long iron pipes placed in the tail-race in such a way that the discharge from the wheel played over it.

1902

11. **Clinker,** R. C. Heating of transformers. (Electrical engineer, London, new series, v. 30, 1902, p. 906–907.) † **VGA**

Methods of measuring temperature of windings and tanks.

12. **Holde,** David. Die Bestimmung der Verdampfbarkeit schwerer Mineralöle. (Mitteilungen aus den Königlichen technischen Versuchsanstalten zu Berlin, Jahrg. 20, 1902, p. 67–70.) **VA (Prussia)**

13. **Influence** de l'huile sur les propriétés isolantes du mica. (L'Électricien, Paris, série 2, tome 24, 1902, p. 80.) † **VGA**

14. **Low,** George P. The station transformer hazard. (Journal of electricity, San Francisco, v. 12, 1902, p. 159–160.) † **VGA**

Abstracted in *Science abstracts,* London, v. 6-B, 1903, p. 25, *PAA.*

Discusses the danger incident to overheating of oil, generation of gas, and explosion.

1903

15. **Baum,** Frank G. The alternating current transformer. New York: McGraw Publishing Company, 1903. vii, 195 p. illus 8°. **VGI**

p. 69, 110: Use of oil as an insulating and cooling agent.

16. **Humann,** Paul. Eine Methode zur Bestimmung der Isolierfähigkeit von Flüssigkeiten. (Elektrotechnische Zeitschrift Berlin, Jahrg. 24, 1903, p. 1082–1083.) † **VGA**

Abstracted in *Science abstracts,* London, v. 7–B 1904, p. 386, *PAA.*

On the basis of measurements taken at high temperatures, the author calculates the resistance of oils at atmospheric temperatures. No details given.

17. **Langley,** John W. Resistance of oil as affected by temperature and impurities (Electrical world, New York, v. 41, 1903 p. 745.) † **VGA**

Abstracted in *Electrician,* London, v. 51, 1903 p. 524, † *VGA.*

Gives results of tests in tabulated form, and draws general conclusions therefrom.

18. **Oil-break** switches and fuses. (Electrical engineer, London, new series, v. 32, 1903, p. 645–648.) † **VGA**

Discusses the particular application of oil to the quenching of arcs in a fuse or circuit-breaker.

19. **Recklinghausen,** Max von. Insulating materials, a field for the chemist. (American Electrochemical Society, Transactions, Philadelphia, v. 3, 1903, p. 153–158.) **PKA**

Same, condensed, in *Electrical review,* New York v. 42, 1903, p. 634–635, † *VGA.*

A general survey of the application of insulations to various machines, particular emphasis being placed upon the necessity of a more precise study of their characteristics with a view to improvement.

20. **Weber,** Robert. Wärmeleitung in Flüssigkeiten. ([Poggendorff's] Annalen der Physik, Leipzig, Folge 4, Bd. 2, 1903, p 1047–1070.) **PAA**

Abstracted in *Science abstracts,* London, v. 7–A 1904, p. 524, *PAA.*

Determined by device which measured the electrical energy required to maintain a given temperature. Observations made on petroleum oil, paraffin oil and other materials are given.

1904

21. **Conditions** que doit remplir l'huile employée dans les transformateurs. (L'Électricien, Paris, série 2, tome 28, 1904, p. 207.) † **VGA**

Condensed form of article in *Elektrotechnische Anzeiger.*

22. **Hewlett,** E. M. Oil-switches for high pressures.—Oil specifications. (American Institute of Electrical Engineers, Transactions, New York, v. 23, 1904, p. 221.) † **VGA**

General requirements.

1904, continued.

23. **Holde,** David. Über Transformatorenöle. (Mitteilungen aus dem Königlichen Materialprüfungsamt zu Gross-Lichterfelde-West, Berlin, Jahrg. 22, 1904, p. 147–150.) **VA (Prussia)**

Abstracted in *Science abstracts,* London, v. 8–B, 1905, p. 183–184, *PAA; Chemisches Zentralblatt,* Berlin, Folge 5, Jahrg. 9, 1905, p. 51, *PKA;* Society of Chemical Industry, *Journal,* London, v. 23, 1904, p. 1206, † *VOA.*

Outlines a set of specifications for insulating oils, differentiating between switch- and transformer-oils. Analysis of a number of oils is given in tabulated form. Mineral oil number 7 is specified by the A. E. G.

24. **On** insulation. (Electrical engineer, London, new series, v. 34, 1904, p. 411–413.) **† VGA**

Deals chiefly with the qualities desirable in insulating oil varnishes and paints.

25. **Meyer,** G. W. Ölkühlung und Luftkühlung bei Wechselstromtransformatoren. (Elektrotechnik und Maschinenbau, Wien, Jahrg. 22, 1904, p. 255–257.) **† VGA**

Abstracted in *Science abstracts,* London, v. 7–B, 1904, p. 495, *PAA.*

The advantages of oil cooling are given as economy of space, greater insulation between windings, and superior ability to withstand surges. The chief disadvantage is the fire hazard due to leakage of oil or fumes.

26. **Moody,** Walter S. Terminals and bushings for high-pressure transformers. (American Institute of Electrical Engineers, Transactions, New York, v. 23, 1904, p. 225–230; discussion, p. 231–235, 243–245.) **† VGA**

Abstracted in *Science abstracts,* London, v. 7–B, 1904, p. 692–693, *PAA.*

A general outline of the types of bushings in use; advocates further application of the oil-filled bushing; discussion centered chiefly about the design of this type; consideration is also given to the problem of siphoning of oil through leads.

27. Le **Refroidissement** des transformateurs au moyen de l'huile et de l'air. (L'Industrie électrique, Paris, tome 13, 1904, p. 235–237.) **† VGA**

Expresses graphically the temperature rise of primary and secondary windings with and without oil.

28. **Rice,** E. W., jr. The relative fire-risk of oil and air-blast transformers. (American Institute of Electrical Engineers, Transactions, New York, v. 23, 1904, p. 171–173; discussion, p. 174–197.) **† VGA**

Abstracted in *Electrical review,* New York, v. 44, 1904, p. 439, † *VGA; Science abstracts,* London, v. 7–B, 1904, p. 693–695, 998–999, *PAA.*

Recommends that transformers be isolated, and be provided with concrete enclosures so designed as to limit the possibility of fire; and properly drained so as to remove the oil from the building in case of fire or leakage.

29. **Scott,** E. Kilburn. Oil for transformers, switches, etc. (Electrical review, London, v. 55, 1904, p. 925–926.) **† VGA**

Advocates drying by means of heated and dried air.

30. **Skinner,** C. E. Oil for insulating purposes. (National Electric Light Association, Proceedings, New York, 1904, p. 540–554; discussion, p. 554–555.) **VGA**

After a brief historical outline of the use of oil as an insulating medium in transformers and switches, the author discusses the sampling and testing of oil, evaporation, moisture absorption, dehydration, deposits and other impurities, dissolution of waterproofing compounds in oil, and offers a general set of specifications for oil.

31. —— Transformer oil. (Electric journal, Pittsburgh, v. 1, 1904, p. 227–239.) **VGA**

For comment see v. 7, 1910, p. 739, *VGA.*

Same, condensed, in *Electrical review,* New York, v. 46, 1905, p. 470–472, † *VGA.* Abstracted in *Electrical world,* New York, v. 43, 1904, p. 1201, † *VGA.*

The author gives a general historical resumé of the application of oil to insulation; discusses evaporation, effects of moisture, and tests for viscosity, freezing point, color, sulphur compounds and deposits. Outlines a model specification for insulating oil.

32. **Transformer** oil. (Electric journal, Pittsburgh, v. 1, 1904, p. 182.) **VGA**

Describes method of detecting moisture by the use of copper sulphate crystals.

33. **Voege,** W. Die Schlagwelten in gasformigen, flüssigen und festen Körpern. (Elektrotechnische Zeitschrift, Berlin, Jahrg. 25, 1904, p. 1033–1035.) **†† VGA**

1905

34. **Action** of waterproofing compounds in transformers. (Electric journal, Pittsburgh, v. 2, 1905, p. 128–129.) **VGA**

Discusses the possible results of the dissolution of waterproofing compounds containing asphalt, coal tar or linseed oil by the insulating oil.

35. **Marcusson,** F. Die Bestimmung des Wassergehalts von Ölen, Fette, Seifen, Harzen, usw. (Mitteilungen aus dem Königlichen Materialprüfungsamt zu Gross-Lichterfelde-West, Berlin, Jahrg. 23, 1905, p. 58–63.) **VA (Prussia)**

36. **Oil** for oil-switch work. (Electric journal, Pittsburgh, v. 2, 1905, p. 128–129.) **VGA**

Abstracted in *Electrical world,* New York, v. 45, 1905, p. 400, † *VGA.*

States the difference in requirements of oil for switches and transformers. A lighter oil is preferred for transformers as circulation, and consequently heat transfer, is hastened; in switches a heavier oil is advocated on the assumption that it is less easily displaced by the action of the arc. Discusses the solubility of waterproofing compounds in oil.

37. **Pumphrey,** Leonard J. Oil-bath switchgear. (Electrical review, London, v. 57, 1905, p. 832–833.) **† VGA**

Abstracted in *Electrical world,* New York, v. 46, 1905, p. 1083, † *VGA; Elektrotechnik und Maschinenbau,* Wien, Jahrg. 24, 1906, p. 58–59, † *VGA.*

In addition to serving as an insulating medium, oil in a transformer serves as an agent of heat transfer; in a switch its function is to quench the arc formed by opening circuits under heavy load. For this reason a distinction must be made between oils suitable for these two classes of service.

1905, continued.

38. **Ryan,** Harris J. Compressed gas as an insulator. (Electric journal, Pittsburgh, v. 2, 1905, p. 429–436.) **VGA**

Abstracted in *Science abstracts,* London, v. 8–B, 1905, p. 624, *PAA.*

Compares the dielectric strengths of oil, air and compressed gases and considers the use of compressed gases as a possible substitute for oil in transformers.

39. **Sammett,** M. A. Oil-insulated versus air-blast transformers. (Electrical review, New York, v. 46, 1905, p. 449–451.) † **VGA**

Abstracted in *Elektrotechnische Zeitschrift,* Berlin, Jahrg. 26, 1905, p. 433, † *VGA; Science abstracts,* London, v. 8–B, 1905, p. 328, *PAA.*

Discusses the superiority of the oil-insulated type; considers means of reducing the hazard of fire and explosion.

40. **Skinner,** C. E. Some hints about transformer oil. (Electric journal, Pittsburgh, v. 2, 1905, p. 96–99.) **VGA**

Abstracted in *Electrical world,* New York, v. 45, 1905, p. 397–398, † *VGA.*

Discusses the effects of moisture, scale and dirt in transformer oil; and methods of sampling and testing.

41. —— Transformer oil. (Electrical world, New York, v. 45, 1905, p. 488–489.) † **VGA**

Abstracted in *Elektrotechnische Zeitschrift,* Berlin, Jahrg. 26, 1905, p. 416, † *VGA.*

Condensed form of pamphlet issued by the Westinghouse Electric and Manufacturing Company. Discusses the deteriorating effects of moisture, methods of testing and removal; and the causes and effects of sludging.

42. **Transformer** oil. (Electrician, London, v. 55, 1905, p. 698.) †† **VGA**

Condensed form of discussion held by the Canadian Electrical Society; deals with the heating and carbonization of oil, and the general requirements of an insulating oil: a high-flashing and burning point, neutral chemical reaction, absence of moisture, high dielectric strength and low-temperature cold test.

1906

43. **Bolam,** Joseph H. Oils for high-tension switches. (Electrician, London, v. 57, 1906, p. 606–607.) †† **VGA**

Abstracted in *Electrical review,* New York, v. 49, 1906, p. 300, † *VGA; Electrical world,* New York, v. 48, 1906, p. 443, † *VGA; Science abstracts,* London, v. 9–B, 1906, p. 432–433, *PAA.*

The general requirements for switch oils are outlined, including a consideration of the relative dielectric properties of mineral and resin oils. Results of tests made on the following samples are given: (a) resin oil, C. F. P. 200° F.; (b) mineral oil, C. F. P. 410° F.; (c) mineral oil, C. F. P. 430° F.; (d) mineral oil, 320° F.; (e) mineral oil, C. F. P. 380° F. Of these (b) was in every way the most satisfactory, it was transparent and frequent sparking did not appreciably deteriorate the oil; (a) was dark in color, opaque and had every tendency to gum; (c) resembled (b) but was not so good an insulator; whilst (d), although a pure mineral oil, deteriorated rapidly on sparking; (e) was an ordinary engine oil tested as a comparison, it is a pure mineral oil and did not appear to contain moisture. Sparking distances for samples at various voltages of from 0 to 32,000 are expressed in curves.

44. **Browning,** William. Notes on electrical conductivity. (Institution of Electrical Engineers, Transactions, London, v. 37, 1906, p. 372–379.) **VGA**

A study of the relation between the current passing and the voltage drop; and of the relation between conductivity and pressure of copper contacts with different finishes, dry, with little oil, with much oil, with little vaseline and with much vaseline. Observed conductivities are plotted.

45. **Compressed** gas as an insulator. (Electrical world, New York, v. 48, 1906, p. 1028.) † **VGA**

Description of U. S. patent 835,367 in which the insulating oil in transformers is subjected to a pressure maintained by compressed air over the oil.

46. **Earhart,** Robert F. Spark potentials in liquid dielectrics. (Physical review, New York, v. 22, 1906, p. 358–369.) **PAA**

Tabulated observations for transformer oil, kerosene, paraffin oil, and olive oil. The following conclusions are drawn: (1) the potential gradient for very small distances is higher than for large ones; (2) for a small distance air is a better insulator than liquid dielectrics; (3) the bend in the potential-distance curve occurs at the same potential for air and liquid dielectrics.

47. **Kintner,** S. M. The treating of transformer oil. (Electric journal, Pittsburgh, v. 3, 1906, p. 583–587.) **VGA**

Abstracted in *Elektrotechnische Zeitschrift,* Berlin, Jahrg. 28, 1907, p. 841, † *VGA; Electrical world,* New York, v. 48, 1906, p. 876, † *VGA; Chemical and metallurgical engineering,* New York, v. 7, 1909, p. 136, † *VOA.*

Discusses six methods of effecting the separation of water and oil: mechanical separation, capillarity, electro-static force, heating, vacuum and heating, and dehydrating.

48. **Kissling,** Richard. Konstanten in der Mineralschmieröl-Analyse. (Chemiker-Zeitung, Cöthen, Jahrg. 30, 1906, p. 932–933.) † **VOA**

Among other samples analyzed, those of transformer oil from Russian and American petroleums are included; tabulated results are given covering resin value, specific gravity, viscosity, cold point, flash point, precipitation, and iodine value.

49. **Marcusson,** F. Die Bestimmung des Flamm- und Brennpunktes von Schmierölen im offnen Tiegel. (Mitteilungen aus dem Königlichen Materialprüfungsamt zu Gross-Lichterfelde West, Jahrg. 24, 1906, p. 218–224.) **VA (Prussia)**

1. Apparat zur Flammpunktsbestimmung von Wagenölen mit mechanischer Flammenführung.

2. Apparat zur Bestimmung des Flamm- und Brennpunktes von Maschinen- und Zylinderölen mit mechanischer Flammenführung.

3. Regelung und Wärmeanstieges.

50. **Qualités** a rechercher pour les huiles utilisées dans les interrupteurs à haute tension. (L'Électricien, Paris, série 2, tome 33, 1906, p. 33–35.) † **VGA**

Abstracted in *Elektrotechnische Zeitschrift,* Berlin, Jahrg. 28, 1907, p. 675–676, † *VGA.*

1906, continued.

51. **Shaw,** P. E. The disruptive voltage of thin liquid films between iridio-platinum electrodes. (London, Edinburgh and Dublin philosophical magazine, London, series 6, v. 12, 1906, p. 317–329.) **OA**

Determinations made for linseed oil, rape oil, fusel oil, cod-liver oil, pentane, octane, paraffine oil, transformer oil, castor oil, olive oil, turpentine, hexane and heptane.

52. **Transformer** oil. (Electrical world, New York, v. 48, 1906, p. 1255.) **† VGA**

Briefly outlines a series of tests conducted by the La Fayette Electrical Manufacturing Co., to study the effects of moisture on the insulating properties of transformer oil.

1907

53. **Browning,** William. Further notes on conductivity; stationary contacts, oiled and dried. (Institution of Electrical Engineers, Transactions, London, v. 39, 1907, p. 678–691.) **† VGA**

The following conditions were studied: the factors which determine the critical pressure in oil, that is, the pressure at which the conductivity assumes a constant value, the conditions of temperature and current density being constant; the relation between current density and conductivity; the relation between temperature and conductivity.

Results of tests are plotted.

54. **Charitschkow,** K. Two types of acid oxydation of petroleum. (Society of Chemical Industry, Journal, London, v. 26, 1907, p. 402.) **† VOA**

Condensed form of article printed in *Petroleum,* Berlin, v. 2, 1907, p. 480–481.

Distinguishes between two types of oxidation products of alkali sludge and outlines methods for their identification.

55. **Chesney,** C. C. Forced-oil and forced-water circulation for cooling oil-insulated transformers. (American Institute of Electrical Engineers, Transactions, New York, v. 26, 1907, p. 835–836; discussion, p. 837–850.) **† VGA**

Abstracted in *Science abstracts,* London, v. 10–B, 1907, p. 271, *PAA.*

A comparison of the efficacy of the two methods in the light of larger units now being built. The forced oil system is given preference; details of the system consisting of piping, pumps, tanks, cooling coils and fittings are dealt with.

56. **Hills,** Stanley M., and Thomas Germann. Some notes on insulation and insulation testing. (Electrical engineer, London, new series, v. 40, 1907, p. 669.) **† VGA**

Condensed form of Northampton Institute Engineering Society paper; general specifications for solid and liquid insulations, insulating oils and varnishes.

57. **Holde,** David. Über verharzte Produkte in Mineralölen. (Mitteilungen aus dem Königlichen Materialprüfungsamt zu Gross-Lichterfelde West, Berlin, Jahrg. 25, 1907, p. 145–154.) **VA (Prussia)**

Same, condensed, in *Zeitschrift für angewandte Chemie,* Berlin, Jahrg. 20, 1907, p. 1263, *PKA.*

Divides resinous compounds according to solubilities in benzene and alcohol ether; outlines methods of testing for, and for removal of same from oils.

58. **Kissling,** Richard. Konstanten in der Mineralschmieröl-Analyse. (Chemiker-Zeitung, Cöthen, Jahrg. 31, 1907, p. 328.) **† VOA**

Abstracted in *Chemical abstracts,* Easton, v. 1, 1907, p. 1770, *PKA.*

An extension of previous work (*Chemiker-Zeitung,* Jahrg. 30, 1906, p. 932–933) describing a method and tabulated results for the determination of tar and sulphur bodies in oils.

59. **Rosa,** E. B., and H. D. Babcock. The variation of manganin resistances with atmospheric humidity. (Electrician, London, v. 59, 1907, p. 339–342.) **† VGA**

Studies the variation of resistance due to absorption of moisture; curves show relative variations in air and in oil.

60. **Russell,** Alexander. The dielectric strength of insulating materials and the grading of cables. (Institution of Electrical Engineers, Journal, London, v. 40, 1907, p. 6–32; discussion, p. 33–34.) **† VGA**

A study of the dielectric properties of solid, liquid, and gaseous dielectrics and the effect upon them of temperature gradient, and electric stresses of direct and alternating currents.

61. **Shaw,** P. E. On the spark potentials in liquid dielectrics. (Philosophical magazine, London, series 6, v. 13, 1907, p. 277–279.) **OA**

Plotted for air, heptane, pentane, linseed oil, fusel oil, castor oil, turpentine, rape oil, paraffin, and transformer oil.

62. **Three-phase** 7500-kw transformers cooled by forced-oil circulation. (Electrical world, New York, v. 49, 1907, p. 1230–1231.) **† VGA**

The oil is pumped through the ducts in the windings and core from an outside source, where it is cooled and stored until it makes another circuit.

63. **Treat,** Robert B. Drying transformer oil. (Electrical world, New York, v. 49, 1907, p. 441–442.) **† VGA**

Abstracted in *Elektrotechnik und Maschinenbau,* Wien, Jahrg. 25, 1907, p. 306.

Reviews the more generally known methods of testing for and of removing moisture from oil and makes several recommendations for quick tests.

1908

64. **"Gluckauf,"** pseud. Switch and transformer oils. (Electrical review, Chicago, v. 63, 1908, p. 403–405.) **† VGA**

Same, condensed, in *Electrical world,* New York, v. 52, 1908, p. 753, *† VGA.*

Outlines specification for oil, covering flash-point, dielectric strength, specific viscosity, specific weight, impurities as sulphur, dust, moisture and acids. Tests for these requirements are given.

1908, continued.

65. —— Switch and transformer oil. II. (Electrical review, London, v. 63, 1908, p. 476–477.) † **VGA**

Same, condensed, in *Electrical world,* New York, v. 52, 1908, p. 859, † *VGA.*

Considers the qualities of insulating oils desirable, particularly from the standpoint of transformer insulation. The effects of dust and moisture are discussed.

66. **Hitchcock,** L. H., and F. E. Wood. Effect of oil on dielectric strength of insulating cloths, papers and woods. (Electrical world, New York, v. 52, 1908, p. 132.) † **VGA**

Abstracted in *Science abstracts,* London, v. 11–B, 1908, p. 411, *PAA.*

Samples of various solid insulating materials were allowed to remain in transformer oil, after which they were tested for dielectric strength. Curves are given showing the dielectric strength plotted against the period of immersion.

67. **Kissling,** Richard. Neue Konstanten in der Mineralschmieröl-Analyse. (Chemiker-Zeitung, Cöthen, Jahrg. 32, 1908, p. 938–940.) † **VOA**

Abstracted in *Society of Chemical Industry, Journal,* London, v. 27, 1908, p. 1053–1054, *VOA.*

Describes method supplementary to those previously described (*Chemiker-Zeitung,* Jahrg. 30, 1906, p. 932–933; Jahrg. 31, 1907, p. 328) for the determination of tarry and coke-like residues for various oils, including Russian and American transformer oils.

68. **Wernicke,** Karl. Die Isoliermittel der Elektrotechnik. Braunschweig: Friedrich Vieweg und Sohn, 1908. vi, 184 p. illus. 8°. **VGM**

p. 148–156: oil for transformers.

1909

69. **Dehydrisation** of transformer oil. (Electrical engineer, London, new series, v. 44, 1909, p. 680.) † **VGA**

By the use of metallic sodium.

70. **Élimination** de l'eau dans l'huile pour transformateurs. (L'Électricien, Paris, série 2, tome 38, 1909, p. 95.) † **VGA**

By the use of metallic sodium.

71. **Germann,** Thomas, and Stanley M. Hills. Insulating materials. (Electrical engineer, London, new series, v. 44, 1909, p. 115–117.) † **VGA**

A study of the dielectric, thermal and mechanical properties of several representative solid materials and materials oiled.

72. —— The use of dielectrics and the principal tests applied to them. (Electrician, London, v. 63, 1909, p. 162–164.) † **VGA**

Abstracted in *Science abstracts,* London, v. 12–B, 1909, p. 277–278, *PAA.*

The properties of and methods of testing glass and porcelain insulators, oils, and varnishes are discussed.

73. **Holde,** David. Erfahrungen mit Normalbenzin und Asphaltbestimmungen in dunklen Mineralölen. (Mitteilungen aus dem Königlichen Materialprüfungsamt zu Gross-Lichterfelde West, Berlin, Jahrg. 27, 1909, p. 143–148.) **VA (Prussia)**

74. **Jaffé,** George. Die elektrische Leitfähigkeit des reinen Hexans. ([Poggendorff's] Annalen der Physik, Leipzig, Serie 4, Bd. 28, 1909, p. 326–370.) **PAA**

Abstracted in *Science abstracts,* London, v. 12–A, 1909, p. 321, *PAA.*

The conductivity of the hexane in a brass cylinder 3.8 cm. internal diameter was about 12.6 times as great as that of air under similar conditions. Several factors in connection with these experiments are: (1) two-thirds of the conductivity was due to external radioactive radiation; (2) saturation occurred at 200-volts per cm.; (3) conductivity was independent of temperature; (4) but dependent on the material of the conducting vessel.

75. **Kissling,** Richard. Neue Konstanten in der Analyse der Mineralschmieröle. (Chemiker-Zeitung, Cöthen, Jahrg. 33, 1909, p. 521–522.) † **VOA**

Abstracted in *Society of Chemical Industry, Journal,* London, v. 28, 1909, p. 594, *VOA.*

Continuation of methods previously described (*Chemiker-Zeitung,* Jahrg. 30, 1906, p. 932–933; Jahrg. 31, 1907, p. 328; Jahrg. 32, 1908, p. 938–940) for determining coke and tar values of oils.

76. **Kouwenhoven,** W. B. Oil used in electric transformers. (Railway and locomotive engineering, New York, v. 22, 1909, p. 167–168.) † **TPB**

Discusses the functions of oil in transformers and switches and offers a set of specifications.

77. The **Linseed** oil fallacy. (Electrical review, London, v. 64, 1909, p. 404–405.) † **VGA**

Loses its dielectric qualities through oxidation which converts it into a "brittle powder"; the author also considers the deleterious effect of linseed oil upon cotton insulation.

78. **Metallic** sodium for drying transformers. (Electrochemical and metallurgical industry, New York, v. 7, 1909, p. 130.) **VOA**

Same, condensed, in *Elektrotechnische Zeitschrift,* Berlin, Jahrg. 30, 1909, p. 812, † *VGA; Engineering news,* New York, v. 61, 1909, p. 214, † *VDA; Science abstracts,* London, v. 12–B, 1909, p. 155, *PAA.*

Describes several methods of maintaining transformer oil free from moisture by the use of metallic sodium.

79. **Molnar,** G. Über die Entzundung von Öltransformatoren. (Elektrotechnik und Maschinenbau, Wien, Jahrg. 27, 1909, p. 1017–1019.) † **VGA**

Abstracted in *Science abstracts,* London, v. 13–B, 1909, p. 27, *PAA; L'Industrie électrique,* Paris, tome 18, 1909, p. 506, † *VGA.*

Fire resulted in a transformer due to failure of the high-tension automatic cut-outs. The author shows that this resulted from the short-circuit of about 3% of the windings, the heat thus generated being sufficient to ignite the oil. It is recommended that the use of cut-outs actuated by the temperature of the oil be used rather than those dependent upon the temperature of windings.

80. **Moody,** Walter S., and G. Faccioli. Corona phenomena in air and oil and their relation to transformer design. (American

1909, continued.

Institute of Electrical Engineers, Transactions, New York, v. 28, 1909, p. 769–798; discussion, p. 799–804.) † VGA

Abstracted in *Science abstracts,* London, v. 12–B, 1909, p. 294, *PAA.*

A series of experiments were carried out with various arrangement of condenser, results observed were recorded for various sizes of conductors, with and without wrappings, and spaced at different distances to determine the voltages at which corona started with the different conditions. The formation of corona in oil is substantially identical to that in air.

81. **Qualities** and testing of transformer oil. (Electrical engineering, London, v. 5, 1909, p. 1093–1094.) † VGA

82. **Sherman,** H. C., and others. A comparison of the calculated and determined viscosity numbers (Engler) and flashing and burning points in oil mixtures. (Journal of industrial and engineering chemistry, Easton, v. 1, 1909, p. 13–17.) † VOA

Abstracted in *Chemical abstracts,* Easton, v. 3, 1909, p. 1079, *PKA.*

83. **Sodium** for drying transformer oils. (Journal of electricity, San Francisco, v. 22, 1909, p. 200–201.) † VGA

Method of using.

84. **Tobey,** H. W. Recent developments in transforming apparatus. (Electrician, London, v. 63, 1909, p. 659–661.) † VGA

Abstracted in *Science abstracts,* London, v. 12–B, 1909, p. 194, *PAA.*

Describes the application of forced-oil cooling systems to transformer design, and the use of oil-filled bushings.

85. **Transformer** oil. (Electrical engineer, London, new series, v. 44, 1909, p. 713.) † VGA

An editorial note discussing in a general way the early use of insulating oil, causes of disintegration, and methods of testing and purification.

86. **Ulzer,** Ferd. Dem Bericht über die Tätigkeit der Wiener Versuchsanstalt für chemische Gewerbe pro 1908. (Chemische Revue über die Fett- und Harz-Industrie, Hamburg, Jahrg. 16, 1909, p. 232–234.) † VOA

Condensed from *Mitteilungen des k. k. Technolog. Gewerbe-Museum in Wien,* Jahrg. 29, Heft 2.

A study was made of the relation of dielectric strength to temperature, given in tabulated form.

1910

87. **Cheyney,** A. R. The modern oil switch with special reference to systems of moderate voltage and large ampere capacity. (American Institute of Electrical Engineers, Transactions, New York, v. 29, 1910, p. 1097–1101.) † VGA

Abstracted in *Science abstracts,* London, v. 13–B, 1910, p. 325–326, *PAA.*

In this portion of the paper the author discusses the part the oil plays in the extinguishing of the arc, the electrostatic forces set up, and the deterioration of the oil by heating and oxidation.

88. **Dehydration** of oil with sodium. (Electrical world, New York, v. 55, 1910, p. 292.) † VGA

Discusses briefly the practicability of several methods of drying transformer oil with metallic sodium.

89. **DeWolf,** R. D. Transformer oil. (Electrical world, New York, v. 55, 1910, p. 552.) † VGA

Discusses in a general way the qualities of commercial insulating oils, causes of sludging, absorption of moisture, and methods of testing for the latter.

90. **Dielectric** anamolies during change of state of the insulating medium. (Electrician, London, v. 66, 1910, p. 217). †† VGA

Records observations made on the conductivity of vaseline, which is a perfect insulator in the ordinary state, but a conductor when it is liquid, and passes through a transitory state. It was determined that when in a liquid state, vaseline acts as a medium charged with free ions of opposite signs, whose mobility, which is nothing when the substance is semi-fluid, is only indicated when liquid portions appear.

91. **Digby,** W. Pollard, and D. B. Mellis. The physical properties of switch and transformer oils. (Institution of Electrical Engineers, Journal, London, v. 45, 1910, p. 165–203; discussion, p. 203–215.) † VGA

Condensed in *Electrician,* London, v. 64, 1910, p. 1010–1014, ††*VGA; Science abstracts,* London, v. 13–B, 1910, p. 277, *PAA; Elektrotechnische Zeitschrift,* Berlin, Jahrg. 32, 1911, p. 1243, †† *VGA; Elektrotechnik und Maschinenbau,* Wien, Jahrg. 28, 1910, p. 465, † *VGA; Electrical world,* New York, v. 55, 1910, p. 1017–1018, † *VGA; Society of Chemical Industry, Journal,* London, v. 29, 1910, p. 406–407, † *VOA.*

For letters of comment see *Electrician,* London, v. 65, 1910, p. 246–247, † *VGA.*

This paper discusses the nature and requirements of oils suitable for dielectric use, probable impurities to be found in commercial oils and methods of testing. As requisites the authors urge: (1) absence of moisture; (2) good dielectric strength; (3) a low viscosity to facilitate the transfer of heat from the windings and core to the case; (4) a flash point two or three times the maximum operating temperature limit of the transformers; (5) an absolutely neutral reaction; (6) absence of vegetable oils or resinoid material; (7) freedom from metallic salts. For switchgear the authors stress the importance of points 1, 2, 5, 6, and 7. Tables showing the properties of various samples are given.

92. **Dow,** J. C. Prevention of syphoning of transformer oil. (Electric journal, Pittsburgh, v. 7, 1910, p. 735.) VGA

Same in *Electrical world,* New York, v. 56, 1910, p. 575–576, † *VGA.*

Discusses the value of using glycerine and of stripping the insulation on leads to prevent siphoning.

93. **Fischer.** Materialien zur Isolation elektrischer Maschinen und Apparate mit besonderer Berücksichtigung der Hochspannungsisolationen. (Elektrotechnische Zeitschrift, Berlin, Jahrg. 31, 1910, p. 869–872.) † VGA

Abstracted in *Science abstracts,* London, v. 13–B, 1910, p. 405–406, *PAA.*

Covers the general field of insulations and their application to various machines. In transformers the effect of oil on mica is discussed and the substitution of pertinax is advocated, being unaffected by the oil, yet possessing the general characteristics of mica.

1910, continued.

94. **Gehrkens**, E. F. Oil and transformer drying outfits. (General Electric review, Schenectady, v. 13, 1910, p. 95–96.) **VGA**

Describes a method of drying by means of heated air.

95. **Gérard**, Léon. Huiles isolantes pour appareils électriques. (L'Électricien, Paris, série 2, tome 40, 1910, p. 45–47, 55–56.) **† VGA**

Discusses the physical and chemical requirements of insulating oils, the relation of dielectric strength to moisture content and viscosity, and describes methods of testing, purifying, and handling.

96. **Gifford**, R. D. The influence of various cooling media upon the rise in temperature of soft iron stampings. (Electrician, London, v. 64, 1910, p. 545–548.) **† VGA**

Abstracted in *Electrical world*, New York, v. 55, 1910, p. 364, † *VGA; Science abstracts*, London, v. 13–B, 1910, p. 409, *PAA*.

Tabulated results and conclusions drawn from a study of the relative thermal conductivities of iron to self-cooled oil, water-cooled oil and to air.

97. **Hayden**, Joseph LeRoy, and Charles P. Steinmetz. Disruptive strength with transient voltages. (American Institute of Electrical Engineers, Transactions, New York, v. 29, 1910, p. 1125–1158; discussion, p. 1208–1232.) **† VGA**

Abstracted in *Elektrotechnik und Maschinenbau*, Wien, Jahrg. 28, 1910, p. 546–547, † *VGA; Electrical world*, New York, v. 56, 1910, p. 99–100, † *VGA; Science abstracts*, London, v. 13–B, 1910, p. 211–212, *PAA*.

The authors reported the results of tests made with needles and with 3.8-cm. spheres in air and in dry white paraffine oil. Single high-voltage impulses of very short duration were produced by impressing a continuous voltage upon the primary of a high-voltage transformer through a non-inductive resistor.

98. **Henry**. Essais des huiles pour transformateurs de haute tension. (L'Industrie électrique, Paris, tome 19, 1910, p. 437–441.) **† VGA**

Abstracted in *Elektrotechnik und Maschinenbau*, Wien, Jahrg. 28, 1910, p. 1017, † *VGA; Electrical world*, New York, v. 56, 1910, p. 1084, † *VGA*.

Outlines methods of test for physical and chemical properties, handling and drying.

99. **Malclès**, Louis. Sur l'apparition de certaines anomalies diélectriques par changement d'état du milieu isolant. (Académie des sciences, Comptes rendus, Paris, tome 151, 1910, p. 63–67.) **OA**

Abstracted in *Science abstracts*, London, v. 13–A, 1910, p. 505, *PAA*.

Vaseline when tested in its semi-fluid state shows no after-effect, indicating that it is a perfect insulator; when solidified anomalous effects are observed, which the author explains by assuming that vaseline acts as a medium containing free ions, whose mobility is zero in the semi-fluid state, but observable in the liquid state.

100. —— Sur l'effet de la pénétration dans les diélectriques. (Académie des sciences, Comptes rendus, Paris, tome 150, 1910, p. 1319–1321.) **OA**

Abstracted in *Science abstracts*, London, v. 13–A, 1910, p. 321, *PAA*.

Experimental results obtained with vaseline oil and various solids.

101. A **New** oil and transformer drying device. (Electric railway journal, New York, v. 35, 1910, p. 418–419.) **† TPB**

Describes the General Electric warm air transformer drying outfit and its method of operation.

102. **Oil-drying** plant. (Electric railway journal, New York, v. 35, 1910, p. 1100.) **† TPB**

Outlines the oil maintenance methods used by the Winnipeg Electric Railway Company.

103. **Pollard**, F. E. Apparatus for the determination of the specific resistance of oil. (Faraday Society, Transactions, London, v. 6, 1910, p. 170.) **PPO**

Same, condensed in *Electrical engineer*, London, new series, v. 45, 1910, p. 767, † *VGA*.

104. **Randall**, Karl C. Notes on the construction and operation of high-tension transformers. (National Electric Light Association, Proceedings, New York, 1910, p. 474–492; discussion, p. 493–494.) **† VGA**

Application of oil to cooling and insulating transformers, fire hazard, and maintenance of oil are considered.

105. **Schreiber**, F. Das Verhalten hochsiedender Mineralöle bei der Erhitzung im Luft- und Dampfstrom. (Zeitschrift für angewandte Chemie, Leipzig, Jahrg. 23, 1910, p. 99–103.) **PKA**

Abstracted in *Chemical abstracts*, Easton, v. 4, 1910, p. 1363, *PKA*.

106. The **Scott** oil tester. (Journal of industrial and engineering chemistry, Easton, v. 2, 1910, p. 482.) **† VOA**

Flash point apparatus.

107. **Tobey**, H. W. Dielectric strength of oil. (American Institute of Electrical Engineers, Transactions, New York, v. 29, 1910, p. 1189–1207; discussion, p. 1208–1232.) **† VGA**

Condensed in *Electrical world*, New York, v. 56, 1910, p. 102–104, †† *VGA; Electrician*, London, v. 66, 1911, p. 491–493, † *VGA; Electrical engineer*, London, new series, v. 46, 1910, p. 231–232, † *VGA; Science abstracts*, London, v. 13–B, 1910, p. 279, *PAA*.

After discussing generally the testing of oils for dielectric strength, the author gives particulars of the influence of moisture on this property. He then considers the various methods which have been proposed for removing the moisture from oil and their value in practice. The effect of sulphur and paraffin is also mentioned. Curves are given which show the disruptive voltage of dry oil measured between variously shaped electrodes, and also the effect of temperature on dielectric strength.

108. **Waters**, Campbell Easter. The action of sunlight and air upon some lubricating

1910, continued.

oils. [Washington, 1910.] 4°. (United States. — Bureau of Standards. Scientific paper no. 153.) **VBDA**

Same in *Journal of industrial and engineering chemistry,* Easton, v. 2, 1910, p. 451–454, † *VOA.*

Reviews the literature on the oxidation of oils, with the formation of asphaltic sludges and acids. Bibliographical footnotes.

109. —— The behaviour of high-boiling mineral oils on heating in the air. Washington: Government Printing Office, 1911. 4°. (United States. — Bureau of Standards. Scientific paper no. 160.) **VBDA**

Same in *Journal of industrial and engineering chemistry,* Easton, v. 3, 1911, p. 233–237, † *VOA.*

Abstracted in *Chemical abstracts,* Easton, v. 5, 1911, p. 2327, *PKA.*

Asphaltic substances insoluble in petroleum ether were formed, the amount formed being dependent upon the presence of air; practically no formation occurred when heated in stoppered bottles.

110. Wild, Lancelot W. Production, measurement, and effect of variable wave form. Effect of wave form on dielectric strength of oil. (Electrical engineer, London, new series, v. 45, 1910, p. 194–195.) **† VGA**

Tests were carried out on Duckham oil, Wilcox oil and a resin oil.

1911

111. Berninger, Alois. Prüfung eines Transformatorenöles. (Kaiserlich-Königlich technologische Gewerbe-Museum in Wien, Mitteilungen, Wien, Neue Folge, Jahrg. 21, 1911, p. 211–217.) **VA**

Abstracted in *Chemisches Zentralblatt,* Berlin, Folge 5, Jahrg. 16, 1912, Teil 1, p. 759, *PKA; Society of Chemical Industry, Journal,* London, v. 31, 1912, p. 114–115, *VOA.*

Outline of requirements and tests; covers viscosity, flash point, dielectric strength. A study is made of the effect of temperature on the dielectric strength and a test gap described, with which the temperature near the gap may be recorded.

112. —— Ueber Transformatorenöle. (Kaiserlich-Königlich technologische Gewerbe-Museum in Wien, Mitteilungen, Wien, Neue Folge, Jahrg. 21, 1911, p. 21–27.) **VA**

Abstracted in *Chemical abstracts,* Easton, v. 6, 1912, p. 679–680, *PKA; Chemisches Zentralblatt,* Berlin, Folge 5, Jahrg. 15, 1911, p. 107–108, *PKA; Society of Chemical Industry, Journal,* London, v. 30, 1911, p. 696–697, *VOA.*

Outlines the physical requirements of transformer oils. A vertical electrode testing cup is described which has a thermometer on a level with the gap; the author claims that the dielectric strength cannot be determined from the electric resistance but must be determined at the working temperature.

113. Bohle, Hermann, and David Robertson. Transformers. A treatise on the theory, construction, design, and uses of transformers, auto transformers, and choking coils. London: Charles Griffin and Company, Limited, 1911. xiv, 356 p., 18 pl. illus. 8°. **VGM**

p. 137: Requirements of insulating oil. p. 176–177: "Cooling functions."

114. Duckham, Alexander. Transformer oil. (Electrician, London, v. 67, 1911, p. 212–214.) **† VGA**

Abstracted in *Electrical world,* New York, v. 57, 1911, p. 1622, †*VGA; Society of Chemical Industry, Journal,* London, v. 30, 1911, p. 697, *VOA; Chemical abstracts,* Easton, v. 5, 1911, p. 3728, *PKA.*

Discusses the function of oil in transformers, and the conditions which contribute to its maximum efficiency. Considers the causes of and methods of combating deterioration of the oil, by deposition of atmospheric dust, the thickening of the oil due to evaporation, the action of the oil on the insulating materials and varnishes of the transformer, and chemical change in the oil itself.

115. —— Transformer oil. (Electrical review, Chicago, v. 58, 1911, p. 1271–1272.) **† VGA**

Discusses the qualities desirable in an insulating oil, more particularly the qualities necessary to assure freedom from sludging.

116. Escard, Jean. Les substances isolantes. Paris: Gauthier-Villars, 1911. xix, 313 p. illus. 8°. **VGM**

p. 242–266: "Isolants organiques à base d'huiles, de paraffine ou de matières albuminoïdes."

p. 242–250, measurement of dielectric strength; p. 251–252, oil insulators; p. 253–254, "Hackethal insulation;" p. 254–262, paraffine; p. 262–267, voltax, compound, galalithe, pilite, gelatine; p. 275–276, impregnated paper.

117. Frank, J. J., and H. O. Stephens. Dissipation of heat from self-cooled, oil-filled transformer tanks. (American Institute of Electrical Engineers, Transactions, New York, v. 30, 1911, p. 447–456; discussion, p. 476–494.) **† VGA**

Abstracted in *Science abstracts,* London, v. 14–B, 1911, p. 153, *PAA.*

This paper deals with the relative merits of the most commonly used designs of tanks, discusses shapes of corrugations; material, finishes and shape of tank; estimation of surfaces and estimation of watts dissipation for various surfaces.

118. General Electric Company. Transformer oil dryer and purifier. Schenectady: General Electric Company, 1911. 4°. (Bulletin no. 4872.) **VGA**

119. Groschuff, E. Ueber die Beständigkeit von Wasseremulsionen in Kohlenwasserstoffölen. (Zeitschrift für Chemie und Industrie der Kolloide, Leipzig, Bd. 9, 1911, p. 257–259.) **PKA**

Abstracted in *Chemisches Zentralblatt,* Berlin, Folge 5, Jahrg. 16, 1912, Teil 1, p. 542–543, *PKA; Chemical abstracts,* Easton, v. 6, 1912, p. 1389–1390, *PKA.*

Tests conducted with benzene, petroleum, paraffin oil, and transformer oil.

120. —— Ueber die Löslichkeit von Wasser in Benzol, Petroleum, Paraffinöl. (Zeitschrift für Elektrochemie, Halle, Jahrg. 17, 1911, p. 348–354.) **PKA**

Abstracted in *Chemical abstracts,* Easton, v. 5, 1911, p. 2550, *PKA.*

121. Hatschek, E. Die Beständigkeit von Oel-Wasser-Emulsionen. (Zeitschrift für Chemie und Industrie der Kolloide, Leipzig, Bd. 9, 1911, p. 159–164.) **PKA**

Abstracted in *Chemical abstracts,* Easton, v. 6, 1912, p. 1389, *PKA.*

1911, continued.

122. Hendricks, A. B., jr. High-tension testing of insulating materials. (American Institute of Electrical Engineers, Transactions, New York, v. 30, 1911, p. 167–213; discussion, p. 224–243.) **† VGA**

Abstracted in *Elektrotechnik und Maschinenbau,* Wien, Jahrg. 29, 1911, p. 269, † *VGA; Science abstracts,* Easton, v. 14–B, 1911, p. 106–107, *PAA.*

The adoption of standard methods and devices for testing solid and liquid dielectrics is recommended. In testing oil the instantaneous method of applying the voltage is used. The electric strength of transformer oil is much greater when frozen hard than when it is liquid. It has its minimum value when in the viscous transition state between the solid and the liquid form. Tests on oil free from moisture show that the effect of air-bubbles is negligible. The disruptive value depends chiefly upon the moisture and dirt content. Curves show dielectric properties of various samples of oils, and of various materials oiled.

123. Léauté, André. Sur les irrégularités du potential disruptif. (Académie des sciences, Comptes rendus, Paris, tome 152, 1911, p. 1474–1476.) **OA**

Observations of the relation of breakdown strength to size of electrodes, and to the length of time the voltage was applied for oil, petroleum, and paraffin.

124. Marcusson, J. Der chemische Aufbau der hochsiedenden Mineralöle. (Chemiker-Zeitung, Cöthen, Jahrg. 35, 1911, p. 729–731, 742–744.) **† VOA**

Abstracted in *Chemical abstracts,* Easton, v. 5, 1911, p. 3728, *PKA; Society of Chemical Industry, Journal,* London, v. 30, 1911, p. 943, *VOA.*

Distinguishes between oils containing unsaturated hydrocarbons soluble in formaldehyde and sulphuric acid forming "formolites" as compared to those soluble in petroleum spirit or "normal benzene." The iodine absorption of an oil is ascribed to the presence of aliphatic olefines as well as to unsaturated hydrocarbons. Tabulated results are given of experimental results observed with Russian and American oils.

125. Merriam, E. B. Some recent tests on oil circuit-breakers. (American Institute of Electrical Engineers, Transactions, New York, v. 30, 1911, p. 1195–1225; discussion, p. 1226–1249.) **† VGA**

Abstracted in *Electrician,* London, v. 68, 1911, p. 471–473, †*VGA; Elektrotechnik und Maschinenbau,* Wien, Jahrg. 29, 1911, p. 668–779, † *VGA; Electrical world,* New York, v. 58, 1911, p. 5, † *VGA; Electrical review,* Chicago, v. 59, 1911, p. 54, † *VGA; Science abstracts,* London, v. 14–B, 1911, p. 327, 382, *PAA.*

Series of tests conducted under various conditions of load to determine the action of the switch under actual conditions of operation. Among other observations recorded were measurements of oil pressure, gas formation, and throwing of oil.

126. Meyerheim, G. Über die Veränderung des Asphaltgehaltes dunkler Mineralöle. (Mitteilungen aus dem Königlichen Materialprüfungsamt zu Gross-Lichterfelde West, Berlin, Jahrg. 29, 1911, p. 184.) **VA (Prussia)**

Tabulated results of percentages of benzol soluble asphalts in various samples of oils.

127. Peterson, W. Hochspannungstechnik. Stuttgart: Ferdinand Enke, 1911. 358 p. illus. 8°. **VGM**

p. 49–54: Testing of oil; effect of moisture and shape of gap.

128. Ryan, Harris J. Open atmosphere and dry transformer oil as high-voltage insulators. (American Institute of Electrical Engineers, Transactions, New York, v. 30, 1911, p. 1–76; discussion, p. 86–130.) **† VGA**

Abstracted in *Electrical review,* Chicago, v. 58, 1911, p. 134, † *VGA; Electrical review,* London, v. 68, 1911, p. 323, † *VGA; Elektrotechnik und Maschinenbau,* Wien, Jahrg. 29, 1911, p. 186, † *VGA; Science abstracts,* London, v. 14–B, 1911, p. 283, *PAA; Elektrotechnische Zeitschrift,* Berlin, Jahrg. 32, 1911, p. 1104–1108, † *VGA.*

The author's conclusions in regard to the insulating properties of dry transformer oil are as follows: (1) the failure of the oil as a dielectric is due to the liberation of ions by the electric stress from the free ions in the metal electrodes; (2) the electric stress required to detach ions from the metal to the oil is much lower than the corresponding stress for a gas; (3) a compressed gas has superior insulating qualities to oil.

129. Schwartz, F. Verfahren zur Bestimmung des Asphaltgehalts von Mineralölen, Erdolpechen und dergl. (Chemiker-Zeitung, Cöthen, Jahrg. 35, 1911, p. 1417–1419.) **† VOA**

Abstracted in *Society of Chemical Industry, Journal,* London, v. 31, 1911, p. 63, *VOA.*

130. Southcombe, J. E. Deposits resulting from the lubrication of engines. (Society of Chemical Industry, Journal, London, v. 30, 1911, p. 261–264.) **VOA**

Abstracted in *Chemical abstracts,* Easton, v. 5, 1911, p. 2935–2936, *PKA.*

Describes apparatus and method used to analyze deposits formed by the use of hydrocarbons for lubricating. This formation is due to the presence of sulphur.

131. Symons, Harold D. The formation of deposit by transformer oils. (Electrical review, London, v. 69, 1911, p. 1039, 1053–1054.) **† VGA**

Abstracted in *Science abstracts,* London, v. 15–B, 1912, p. 56, *PAA; Electrical world,* New York, v. 59, 1912, p. 108, 155, † *VGA.*

Samples of oils were heated to various temperatures for varying lengths of time under different conditions; temperature, time, and oxidation were all factors in producing deposit, but the temperature and the length of time it was maintained affected the oil to a greater extent. Results of tests are given in form of graphs.

132. Taylor, William T. Modern high-voltage power transformers in practice; with special reference to a "T" three-unit system. — Transformer oil. (Institution of Electrical Engineers, Journal, London, v. 48, 1911, p. 76–78.) **† VGA**

Same, condensed, in *Electrical review,* Chicago, v. 59, 1911, p. 1183–1185, † *VGA.*

Discusses briefly flash-point, fire test, freezing point, color, viscosity, and breakdown test of oil.

133. Testing of transformer oil. (Electrical review, Chicago, v. 59, 1911, p. 633.) **† VGA**

A brief review of tests with electrodes of various shapes, sizes and with various spacings, carried out at the Physikalisch-technische Reichsanstalt, Berlin.

134. Waters, Campbell Easter. The effect of added fatty and other oils upon the carbonization of mineral lubricating oils. (Journal of industrial and engineering chemistry, Easton, v. 3, 1911, p. 812–816.) **† VOA**

1911, continued.

135. **Weed,** James Murray. The temperature gradient in oil immersed transformers. (American Institute of Electrical Engineers, Transactions, New York, v. 30, 1911, p. 427–446; discussion, p. 476–494.) † **VGA**

Abstracted in *Electrical review,* Chicago, v. 58, 1911, p. 391–392, † *VGA; Science abstracts,* London, v. 14–B, 1911, p. 76, *PAA.*

The author points out the damaging effects of overheating windings and oils in transformers, and makes a study of the steps in the cooling process from which practical suggestions are made regarding size, shape and color of tanks, qualities of oil required and methods of obtaining efficient convection of oil and radiation of heat.

1912

136. **Addenbrooke,** G. L. On the properties of dielectrics in alternating fields. (Electrician, London, v. 68, 1912, p. 829–831.) † **VGA**

Abstracted in *Science abstracts,* London, v. 15–B, 1912, p. 174, *PAA.*

A study of the relative dielectric values of solid and liquid dielectrics in alternating and direct currents. With liquid dielectrics, the loss, if the liquids are not freed from moisture, tends to be nearly a constant, and to be nearly independent of frequency, or the loss per cycle is nearly inversely proportional to the number of cycles.

137. **Allen,** Irving C., and Walter A. Jacobs. Methods for the determination of water in petroleum and its products. (Eighth International Congress of Applied Chemistry, Original communications, Washington and New York, v. 10, 1912, p. 17–23.) **PKR**

Outlines the following methods: loss in weight on heating; diluting with a solvent and settling by gravity; diluting with a solvent and settling by centrifuge; treating with calcium carbide; treating with sodium; use of a color comparitor tube; treating with normal acids; electrical treatment; distilling with a nonmiscible liquid; directly distilling off the water.

138. **Bearce,** Henry Walter. Density and thermal expansion of linseed oil and turpentine. Washington: Government Printing Office, 1912. 27 p. 4°. (United States.—Bureau of Standards. Technologic paper no. 9.) **VBDA**

139. **Breth,** F. Zur Kenntnis des Transformatorenöles. (Elektrotechnische Zeitschrift, Berlin, Jahrg. 33, 1912, p. 350.) † **VGA**

Abstracted in *Chemisches Zentralblatt,* Berlin, Folge 5, Jahrg. 16, Bd. 1, 1912, p. 691, *PKA; Society of Chemical Industry, Journal,* London, v. 31, 1912, p. 62–63, *VOA.*

Condensed from *Petroleum,* Berlin, Bd. 7, 1911, p. 290. Describes a specially developed gap for determining the breakdown voltage of oil, and the effects of dielectric stress of less than breakdown voltage applied for various lengths of time. Study was made of the effects of heating, carbonization, resinification and oxidation.

140. **Clark,** Harold Hayward. An investigation of explosion-proof motors. Washington: Government Printing Office, 1912. 44 p., 6 pl. 8°. (United States.—Bureau of Mines. Bulletin 46.) **VHCA**

A gas-percentage indicator and a recording pressure indicator are described.

141. **Green,** F. C. Some features of the outdoor electrical installation. (American Institute of Electrical Engineers, Transactions, New York, v. 31, 1912, p. 323–337.) † **VGA**

Among other factors to be considered in comparing the relative advantages of indoor and outdoor installations is the problem of protecting insulating oil from the effects of extremes of temperature and moisture. Curves are given showing the dielectric strength of numbers 6 and 10 oils at various temperatures.

142. **Hinrichsen,** F. Willy. Das Materialprüfungswesen unter besonderer Berücksichtigung der am Königl. Materialprüfungsamte zu Berlin-Lichterfelde üblichen Verfahren im Grundriss dargestellt. Stuttgart: Ferdinand Enke, 1912. xx, 607 p. illus. 8°. **VEE**

p. 467–468: Transformatorenöle.

143. **Hodgman,** H. H. Some notes on the installation and operation of high-voltage transformers. (General Electric review, Schenectady, v. 15, 1912, p. 746–755.) **VGA**

This article covers recommendations for inspecting and cleaning; drying and duration of the drying run; methods of sampling, testing, drying and straining the oil; filling of transformers, putting in service and operation.

144. **Hooper,** P. N. The formation of deposit by transformer oils. (Electrical review, London, v. 70, 1912, p. 275–277.) † **VGA**

Abstracted in *Electrical world,* New York, v. 59, 1912, p. 555, † *VGA.*

Comments on the article by Symons; see entry number 131.

145. **Knoblauch,** Emil. Die Charakteristik künstlicher Isolationsmaterialien. (Elektrotechnische Zeitschrift, Berlin, Jahrg. 33, 1912, p. 209–210.) † **VGA**

Same, condensed, in *Electrician,* London, v. 69, 1912, p. 626–627, † *VGA; Electrical world,* New York, v. 59, 1912, p. 651, † *VGA; Science abstracts,* London, v. 15–B, 1912, p. 222–223, *PAA.*

A curve is given with description in an attempt to outline the properties required of an ideal insulating material.

146. **La Gorce,** P. de, and P. Girault. Influence de la fréquence sur la rigidité diélectrique. (Société internationale des électriciens, Bulletin, série 3, tome 2, 1912, p. 39–44.) † **VGA**

Abstracted in *Science abstracts,* London, v. 15–B, 1912, p. 223, *PAA.*

Experiments conducted with needle electrodes with voltages at 25 and 100 cycles. The disruptive voltage for air and oil was found to increase with frequency.

147. **Laporte,** F., and P. De La Gorce. Essais des diélectriques sous des tensions

1912, continued.

continues et alternatives. (Société internationale des électriciens, Bulletin, Paris, série 3, tome 2, 1912, p. 9–37.) † **VGA**

Same in the *Travaux du Laboratoire central d'électricité,* Paris, tome 3, 1912–13, p. 87–115, † *VGA.*

Abstracted in *Science abstracts,* London, v. 15–B, 1912, p. 222, *PAA.*

Tests made on impregnated cellulose cable papers at various voltages; ratio between direct- and alternating-current varied from 2.9 to 3.15, the direct-current being the higher. The rate of increase of the test voltage had little effect.

148. **McConahey,** W. M. Care and operation of transformers. (National Electric Light Association, Proceedings, New York, 1912, p. 657–688.) † **VGA**

Describes recent examples of large units; maintenance of oil by the use of filter press and methods of testing for dielectric strength.

149. **Nastjukow,** A. M. Neue Untersuchung über die Schmieröle. (Chemiker-Zeitung, Cöthen, Jahrg. 36, 1912, p. 1220.) **PKA**

Describes the formolite test.

150. **National Electric Light Association.** —Committee on Electrical Apparatus. Report, 1912. Transformers. (National Electric Light Association, Proceedings, New York, 1912, p. 560–570.) † **VGA**

Describes interesting developments made in transformer design during the past year. Stresses the importance of maintaining the dielectric strength of oil and describes a new motor-driven filter press.

151. **New** transformer-oil drier and purifier. (Electrical review, Chicago, v. 60, 1912, p. 198.) † **VGA**

Describes the construction and operation of the General Electric filter-press.

152. **Oil-drying** and purifying outfit. (Electrical world, New York, v. 60, 1912, p. 1224–1225.) † **VGA**

Same in *Electrical world,* New York, v. 69, 1917, p. 395, † *VGA; Electrical review,* Chicago, v. 61, 1912, p. 1092–1093, † *VGA.*

Describes the construction and operation of the Westinghouse filter-press.

153. **Pungs,** L. Untersuchungen über das dielektrische Verhalten flüssiger Isolierstoffe bei hohen Wechselspannungen. (Archiv für Elektrotechnik, Berlin, Bd. 1, 1912, p. 329–344.) **VGA**

Abstracted in *Science abstracts,* London, v. 16–B, 1913, p. 285–286, *PAA; Elektrotechnik und Maschinenbau,* Wien, Jahrg. 31, 1913, p. 149, † *VGA.*

Experiments were carried out on a mineral transformer oil, paraffin oil, a resin oil, and a mixture of colophony and bees-wax. The effect of frequency and temperature were studied. The losses of the transformer oil were practically independent of the frequency, but rose with the temperature. The dielectric coefficient was independent of the voltage gradient, and decreased with increase of temperature. No effect is ascribed to hysteresis. The resin oil showed similar properties, the loss increasing but slightly with the frequency.

154. **Rayner,** E. H. High-voltage tests and energy losses in insulating materials. (Institution of Electrical Engineers, Journal, London, v. 49, 1912, p. 3–71; discussion, p. 71–89.) **VGA**

Bibliography, p. 53–71.

Condensed in *Electrician,* London, v. 68, 1912, p. 725–727, 762–766, † *VGA.*

The results of the experiments on oiled fabrics show that when subjected to voltages sufficiently high to break down the surrounding air, a rapid decrease in electric strength is produced, which is due largely to the damage produced by the brush discharge.

155. **Reisset,** A. Sur les huiles de transformateurs. (La Lumière électrique, Paris, série 2, tome 19, 1912, p. 7–10.) † **VGA**

Abstracted in *Electrical world,* New York, v. 60, 1912, p. 269, † *VGA.*

A general survey of the recent literature.

156. **Siemens** expansion chamber for oil-cooled transformers. (Electrical review, Chicago, v. 61, 1912, p. 37–38.) † **VGA**

Same in *Electrical world,* New York, v. 59, 1912, p. 1449, † *VGA.*

157. **Swann,** W. F. G. A case of anomalous conduction in a solid dielectric. (British Association for the Advancement of Science, Report, v. 82, 1912, p. 424.) * **EC**

Abstracted in *Engineering,* London, v. 94, 1912, p. 516, † *VGA.*

The conductivity of paraffin wax was investigated for potential gradient of the order of 10,000-volts per centimetre and was found to increase with the field.

158. **Transformer** oil drier and purifier. (Electrical world, New York, v. 59, 1912, p. 271.) † **VGA**

Describes the method of operation of the General Electric filter-press.

1913

159. **Allen,** Irving C., and A. S. Crossfield. Investigations with U. S. Bureau of Mines modification of the Abel-Pensky and Pensky-Martens flash-point testers. (Journal of industrial and engineering chemistry, Easton, v. 5, 1913, p. 908–910.) **VOA**

Abstracted in *Chemical abstracts,* Easton, v. 7, 1913, p. 4064, *PKA.*

160. **Armstrong,** George E. Handling, sampling and testing of transformer oil. (Electrical world, New York, v. 62, 1913, p. 1322–1324.) † **VGA**

Abstracted in *Zeitschrift des Vereines deutscher Ingenieure,* Berlin, Bd. 58, 1914, p. 197, † *VDA.*

Gives the experiences of the Southern California Edison Co., in shipping, storing and transferring oil; outlines the effects of moisture and impurities, methods of testing, and of purification.

161. **Barr,** James R., and R. D. Archibald. The design of alternating current machinery. New York: The Macmillan Company, 1913. xvi, 496 p., 17 pl. illus. 8°. **VGI**

p. 43–44. Function and general requisites of oil in transformers.

p. 120–130: Heating of transformers; maximum permissible temperature rise; oil immersed, self cooling; oil immersed water cooled; calculation of temperature rise per watt per square decimetre for different methods of cooling.

1913, continued.

162. **Blanchard,** C. B., and C. T. Anderson. A laboratory investigation of temperature rise as a function of atmospheric conditions. (American Institute of Electrical Engineers, Transactions, New York, v. 62, 1913, p. 289–299; discussion, p. 359–409.) † **VGA**

Abstracted in *Science abstracts,* London, v. 16–B, 1913, p. 297, *PAA.*

A small coil was suspended in a large steel tank immersed in oil in a larger tank. The temperature, humidity, and pressure of the air in the inner tank were varied, and their influences on temperature-rise of the coil noted.

163. **Buch,** A. Die Theorie moderner Hochspannungsanlagen. München und Berlin: R. Oldenbourg, 1913. ix, 358 p. illus. 8°. **VGM**

p. 69–71: "Das Öl als Dielektrikum." p. 71: "Technische Bedingungen für die Lieferung von Transformatoren- und Schalterölen der Vereinigung der Elektrizitätswerke. Aufgestellt in Berlin, den 9. März 1911."

164. **Buch,** Fred. Oil-piping layout for transformers using thin oil. (Electrical world, New York, v. 61, 1913, p. 360–363.) † **VGA**

Describes a layout by which a system of oil supply and return supplies all the oil-filled equipment in a station; as each piece of equipment is isolated by a valve any unit may be emptied, and the oil stored or filtered and returned without disturbing any other unit or transformer bank.

165. **Clark,** Harold Hayward, and R. W. Crocker. Electric switches for use in gaseous mines. Washington: Government Printing Office, 1913. 38 p. illus. 8°. (United States.—Bureau of Mines. Bulletin 68.) **VHCA**

Studies the causes of ignition of explosive gases in oil switches. A gas percentage indicator and a pressure recording indicator are described.

166. **Eby,** Eugene D. High-voltage transformer leads: a comparison of designs. (General Electric review, Schenectady, v. 16, 1913, p. 404–413.) **VGA**

Abstracted in *Elektrotechnische Zeitschrift,* Berlin, Jahrg. 35, 1914, p. 1095, † *VGA.*

The author makes a comparison of the materials used in the construction of bushings, and discusses the relative merits of various designs, pointing out the superiority of the oil-filled bushing on the score of low losses, circulation when under stress, ability for self-healing when ruptured and easy replacement. Methods of procedure are given for the testing of leads.

167. **Evershed,** S. The characteristics of insulation resistance. (Institution of Electrical Engineers, Journal, London, v. 52, 1913, p. 51–73; discussion, p. 73–83.) **VGA**

Same, condensed, in *Electrical review,* Chicago, v. 63, 1913, p. 1223–1230, † *VGA; Electrician,* London, v. 72, 1913, p. 318–320, 358–360, 415–418, † *VGA.* Abstracted in *Electrical engineering,* London, v. 9, 1913, p. 663, † *VGA; Science abstracts,* London, v. 17–B, 1914, p. 83–84, *PAA.*

A mathematical study of the effect of moisture on solid and liquid dielectrics, singly and in series. The breakdown is ascribed to the lining up of water particles, which under the electric force, thicken, thus reducing the resistance.

168. **Farmer,** F. M. The dielectric strength of thin insulating materials. (American Institute of Electrical Engineers, Transactions, New York, v. 32, 1913, p. 2097–2110; discussion, p. 2111–2131.) † **VGA**

Same, condensed, in *Electrical review,* Chicago, v. 63, 1913, p. 1230–1232, † *VGA; Electrical world,* New York, v. 62, 1913, p. 1250, † *VGA.* Abstracted in *Chemical abstracts,* Easton, v. 8, 1914, p. 629, *PKA; Science abstracts,* London, v. 17–B, 1914, p. 132, *PAA.*

The apparent dielectric strength of all insulating materials, gaseous, liquid and solid, is materially higher with small electrodes than with large ones, although the amount of variation differs widely with different materials.

169. **Ferguson,** S. Breaking capacities of oil switches. (Electrician, London, v. 72, 1913, p. 364–367.) † **VGA**

Abstracted in *Electrical world,* New York, v. 62, 1913, p. 1339, † *VGA.*

An illustrated article in which the conditions arising on short circuit and the action of the oil switch are first briefly reviewed, after which the causes of oil switch explosions are considered. An analysis of the results of tests on breaking capacities is given, and the factors governing breaking capacity enumerated.

170. **Fleming,** A. P. M., and R. Johnson. Insulation and design of electrical windings. London: Longmans, Green and Co., 1913. 224 p. illus. 8°. **VGM**

p. 15–20: "Physical characteristics of dielectrics. Liquids." "Spark voltage and spark length. Conditions affecting sparking voltage." p. 91–96: "Oils. Specification of tests."

171. **Flight,** William Stanley. The law of dielectrics. (Institution of Electrical Engineers, Journal, London, v. 52, 1913, p. 764–768.) **VGA**

After discussing the effect obtained with variously shaped and sized electrodes, the author discusses the relation of pressure, temperature, moisture, time of application of test voltage, and the presence of foreign matter to the dielectric strength of oil. Consideration is also given to these factors in the testing of fibrous materials in series with oil.

172. **Fortescue,** C. Correction of transformer temperatures for variation in room temperature, taking into account both copper and iron loss. (American Institute of Electrical Engineers, Transactions, New York, v. 62, 1913, p. 227–234; discussion, p. 359–409.) † **VGA**

Abstracted in *Science abstracts,* London, v. 16–B, 1913, p. 200, *PAA.*

173. **Foster,** Horatio A. Electrical engineers pocket-book: a hand-book of useful data for electricians and electrical engineers. New York: D. Van Nostrand Company, 1913. xxxvi, 1599 p. illus. 8°. **Desk – Tech. Div.**

p. 227: Specific resistance of dielectrics at about 20° C. p. 234: Puncture voltage of mica in transil oil. p. 500: Specifications for transformer oil.

174. **Frank,** J. J., and W. O. Dwyer. The temperature rise of stationary induction apparatus as influenced by the effects of temperature, barometric pressure and humidity

1913, continued.

of the cooling medium. (American Institute of Electrical Engineers, Transactions, New York, v. 32, 1913, p. 235–258; discussion, p. 359–421.) **† VGA**

Abstracted in *Science abstracts,* London, v. 16–B, 1913, p. 243, *PAA.*

175. Harris, F. W. Low-freezing mixture for oil switches. (Electrical world, New York, v. 61, 1913, p. 308.) **† VGA**

Points out the danger of the interference cold oil offers to the operation of a switch, the inability to extinguish an arc and to conduct off heat. Compares the value of carbon tetrachloride and a half and half mixture of standard transformer oil and turpentine as substitutes during the winter months.

176. Institution of Electrical Engineers. — Research Committee. Insulating oils. (Institution of Electrical Engineers, Journal, London, v. 52, 1913, p. 48.) **VGA**

Outlines the questions to be considered when making specifications for insulating oils.

177. Johannsen, S. E., and G. W. Wade. Methods of determining temperature of transformers and of cooling medium. (American Institute of Electrical Engineers, Transactions, New York, v. 32, 1913, p. 191–211; discussion, p. 359–421.) **VGA**

Abstracted in *Elektrotechnik und Maschinenbau,* Wien, Jahrg. 31, 1913, p. 343–344, † *VGA; Electrical review,* Chicago, v. 62, 1913, p. 514, † *VGA; Science abstracts,* London, v. 16–B, 1913, p. 202, *PAA.*

The paper discusses methods of determining the effective temperature of the cooling medium and the actual temperature of the heated transformers. Methods of measuring hot temperatures by resistance are discussed. Attention is called to the advantages obtained by comparing resistance of the loaded transformer with that of a duplicate idle transformer.

178. Langmuir, Irving. Convection and radiation of heat. (American Electrochemical Society, Transactions, South Bethlehem, Pa., v. 23, 1913, p. 299–330; discussion, p. 330–332.) **PKA**

Abstracted in *Chemical abstracts,* Easton, v. 7, 1913, p. 1323, *PKA.*

Studies the effects of the surface shape and finish, and of the physical characteristics of the surrounding atmosphere.

179. —— Laws of heat transmission in electrical machinery. (American Institute of Electrical Engineers, Transactions, New York, v. 32, 1913, p. 301–323; discussion, p. 359–409.) **† VGA**

Abstracted in *Chemical abstracts,* Easton, v. 7, 1913, p. 1330, *PKA; Science abstracts,* London, v. 16–B, 1913, p. 242–243, *PAA.*

Discusses and gives in tabulated form the thermal conductivities and resistivities of various materials. Bibliographical references.

180. McConahey, W. M., and C. Fortescue. Methods of determining temperature of transformers. (American Institute of Electrical Engineers, Transactions, New York, v. 32, 1913, p. 213–225; discussion, p. 359–409.) **† VGA**

Abstracted in *Electrical review,* Chicago, v. 62, 1913, p. 514, † *VGA; Science abstracts,* London, v. 16–B, 1913, p. 199–200, *PAA.*

A discussion of tests to determine efficiency of cooling is given. Standard methods of loading transformers are given and compared.

181. Michie, A. C. The formation of deposits in oil-cooled transformers. (Institution of Electrical Engineers, Journal, London, v. 51, 1913, p. 213–218; discussion, p. 219–222.) **VGA**

Same, condensed, in *Electrician,* London, v. 71, 1913, p. 218–219, † *VGA; Elektrotechnik und Maschinenbau,* Wien, Jahrg. 31, 1913, p. 669, † *VGA; Electrical world,* New York, v. 61, 1913, p. 1268, † *VGA; Electrical engineering,* London, v. 9, 1913, p. 273, † *VGA; L'Électricien,* Paris, série 2, tome 47, 1914, p. 44, † *VGA; Society of Chemical Industry, Journal,* London, v. 33, 1914, p. 1196, *VOA; Science abstracts,* London, v. 17–B, 1914, p. 18–19, *PAA.*

Considers the nature of deposits, their effects on windings, bushings, etc., of transformers, and discusses the methods that have been advanced for preventing or mitigating the effects of these deposits. Results of tests conducted to determine the sludge-forming characteristics of a number of representative samples are given in tabulated form. A test is described in detail, consisting essentially of passing through the oil, which has been heated, a current of purified air or ozone. Acceleration of formation was caused by copper, iron, tin, lead, nickel, and zinc. Treatment with sulphuric acid or potassium hydroxide, or filtration through fuller's earth removed saturated or readily oxidizable substances, their removal causing a reduction of sludge formation under test.

182. Schwarz, F., and J. Marcusson. Prüfung und Beurteilung von Dampfturbinenölen. (Zeitschrift für angewandte Chemie, Aufsatzteil, Leipzig, Jahrg. 26, 1913, p. 385–389; letter of comment, p. 432.) **PKA**

Abstracted in *Chemical abstracts,* Easton, v. 7, 1913, p. 3019, *PKA.*

Analyses were made for a number of American and Russian oils by the Kissling method to determine the tar numbers. Results are given in tabulated form.

183. Simon, A. Der Ausschaltvorgäng bei Ölschaltern. (Elektrotechnik und Maschinenbau, Wien, Jahrg. 31, 1913, p. 673–674.) **† VGA**

Abstracted in *Electrical world,* New York, v. 62, 1913, p. 495, † *VGA.*

Consideration of the action of an oil switch in breaking a circuit, and in quenching the resultant arc; the formation of oil gas and its possible ignition and explosion. The author claims that the oil itself does not extinguish the arc directly, but that the arc is extinguished by the gas formed, which is under a high pressure due to the inertia of the surrounding oil.

184. Szilas, Oskar. Graphische Untersuchung des Erwärmungsproblems von elektrischen Maschinen und Transformatoren. (Elektrotechnik und Maschinenbau, Wien, Jahrg. 31, 1913, p. 1065–1072, 1095–1099.) **† VGA**

1913, continued.

185. **Taylor,** William T. Transformer practice. Manufacture, assembling, connections, operation and testing. New York: McGraw-Hill Book Company, Inc., 1913. v, 278 p. 2. ed. illus. 8°. **VGMB**

p. 130–135: "Transformer oil." General requirements; methods of handling, testing and maintenance; causes of loss of dielectric strength.

186. **Waters,** Campbell Easter. The evaporation test for mineral lubricating and transformer oils. Washington: Government Printing Office, 1913. 13 p. 4°. (United States. — Bureau of Standards. Technologic paper no. 13.) **VBDA**

Same in *Journal of Industrial and engineering chemistry,* Easton, v. 5, 1913, p. 394–398, *VOA.* Abstracted in *Chemical abstracts,* Easton, v. 7, 1913, p. 2679, *PKA; Chemisches Centralblatt,* Berlin, Folge 5, Jahrg. 17, Bd. 2, p. 97, *PKA; Elektrotechnische Zeitschrift,* Berlin, Jahrg. 36, 1914, p. 983, † *VGA; Society of Chemical Industry, Journal,* v. 32, 1913, p. 1000, *VOA.*

A study made to determine the effect of various methods, and more particularly of the areas of oil exposed to the atmosphere by these methods on the results obtained by evaporation tests by different investigators where results showed a considerable variation. Bibliographical footnotes.

187. **Wiebe,** H. F. Die obere Brauchbarkeitsgrenze des Abel-Penskyschen Apparates und seine Vergleichung mit dem Penskyschen Flammpunktprüfer. (Petroleum, Berlin, Jahrg. 8, 1913, p. 1061–1063.) **VHYA**

Abstracted in *Chemical abstracts,* London, v. 7, 1913, p. 247, *PKA.*

Describes method of correction for portion of mercury thread exposed, thus having a lower temperature than the remainder which is inclosed.

(To be continued)

CIRCULATION STATISTICS FOR THE MONTH OF OCTOBER, 1926

BRANCHES	CIRCULATION		NEW REGISTRATIONS	VOLUMES ACCESSIONED
	HOME USE (VOLUMES)	READERS OF REFERENCE BOOKS		
MANHATTAN				
Central Building	55,986	---	1,224	623
Children's Room	2,972	3,222	74	12
Extension Division*	39,029	---	598	942
Library for the Blind	3,255	---	8	137
East Broadway, 33	10 162	2,145	147	182
East Broadway, 192	25,853	5,032	420	543
Rivington street, 61	17,860	2,466	216	213
East Houston street, 388	18,874	3,469	217	489
Leroy street, 66	11,467	1,630	154	134
8th street, 135 Second avenue	13,261	1,507	131	108
10th street, 331 East	21,581	2,090	324	416
13th street, 251 West	9,928	1,445	194	219
23rd street, 228 East	9,597	1,398	260	104
23rd street, 209 West	8,780	1,031	213	175
36th street, 303 East	9,168	870	209	112
40th street, 457 West	11,552	950	229	165
50th street, 564 Lexington avenue	8,390	634	252	108
51st street, 742 Tenth avenue	12,850	1,432	174	151
58th street, 121 East	11,998	1,250	318	300
Music	2,071	1,475	26	92
67th street, 328 East	15,566	3,084	275	246
69th street, 190 Amsterdam avenue	13,536	1,505	319	371
77th street, 1465 Avenue A	18,811	1,378	166	141
79th street, 222 East	17,934	1,688	283	155
81st street, 444 Amsterdam avenue	15,468	813	388	244
96th street, 112 East	29,017	2,796	405	520
100th street, 206 West	19,262	1,249	500	426
110th street, 174 East	25,373	3,750	379	324
115th street, 203 West	17,885	1,481	298	161
124th street, 9 West	11,620	3,383	210	199
125th street, 224 East	12,663	1,399	387	192
125th street, 518 West	18,999	1,237	476	371
135th street, 103 West	12,042	3,374	365	233
145th street, 503 West	21,152	1,015	433	672
St. Nicholas avenue, 1000	17,484	1,502	259	305
179th street, 535 West	24,545	2,467	450	517
THE BRONX				
140th street, 321 East	21,377	2,488	468	450
Morris avenue, 910	17,029	1,769	328	371
160th street, 761 East	32,274	4,073	681	591
168th street, 78 West	8,805	642	238	94
169th street, 610 East	29,231	3,280	476	342
176th street and Washington avenue	38,941	4,307	813	412
Bainbridge avenue, 2556	33,611	4,051	705	684
Kingsbridge avenue, 3041	4,775	738	121	77
RICHMOND				
St. George	8,440	3,827	178	128
Port Richmond	11,099	841	186	282
Stapleton	7,245	411	85	300
Tottenville	6,000	329	44	95
Totals	814,818	90,923	15,304	14,128

* In addition 4,180 books were read at agencies of the Extension Division.

PRINCIPAL DONORS IN OCTOBER, 1926

	VOLS.	PMS.
Academia de Ciencias Médicas, Físicas y Naturales de la Habana	2	
Akademisches Auskunftsamt	1	
Almi, A.	2	1
American Jersey Cattle Club	1	
Bach, Richard F.		1
Bemis, Dr. Edward W. (22 periodicals)	134	9
Brand, Frank M.	1	
Brewer, Luther A.		1
Brown, Harriet G.	1	
Bruzual-Lopez, Rafael	1	
Burke, Mrs. Caroline E.	1	
Burlingham, Charles C.		1
Busto, D. Gumersindo (1 medal)		
Campbell, Frank Arthur		2
Carranza, Dr. Fortunato		21
Catalonian Cultural Committee	3	
Chait, S.		1
Charbonneau, Albert	3	
Chieftain, H. M.	1	
Cline, Miss Jennie L.	1	1
Comité National Macedonien		12
Davis, W. Jefferson	1	
De Cou, Miss S. Ella	2	
de Kay, John	1	
Detwiller, Frederick K. (1 print)		
Donn, Charles (356 periodicals)	14	1
Downs, Frank (5 newspapers)		
Ellis, Arthur M.		1
Elzas, Rev. Dr. Barnett A.	3	
Ferrocarril del Pacifico (1 map, 1 medal)	2	2
Fersen, Eugene	4	
Finland. Ministry for Foreign Affairs	3	14
Fisher, John M.	1	
Gallant, Rabbi Abraham	1	
Gayler, Julius F.		1
Goell, Milton J.	1	
Greenwood, Estate of Isaac J. (17 portfolios)	15	1
Guiding Star Publishing House	1	
Hardon, Henry W.	1	
Haskell, Mrs. Ernest (5 prints)		
Istituto Giosue Carducci		7
Jaffray, Robert		1
Japan. Education Department	2	2
Jónsson, Snaebjörn	1	
Kahn, Mrs. J.	17	
Komatsu, Prof. Shigeru		1
Little, Philip (4 prints)		
Lugo, Dr. Amérigo	1	
Marmor, Clement K.	23	5
Martins, João Pedro		2
Martyn, Charles	1	
Maude, Aylmer	1	
Narodnata Biblioteka	5	6
Netherlands-India. Topografischen Dienst	4	
Nold, Raymond		63
Obregón, Dr. Toribio Esquivel	1	
Parr, John Henry	28	1
Pearson, Mrs. A. L.	7	
Perkins, Mrs. S. W. (843 periodicals)		
Poland. Ministerstwo Rolnictwa i Dóbr Państwowych	2	
Pottle, Arnold & Smith	2	
Rossiter, Miss Harriet		1
Salter, Miss A. R.	80	
Scharles, Mrs. H. F.	125	
Shohet, Rabbi D. M.		1
Smith-Grieves Company	1	
Sossnitz, Dr. I. (manuscripts)		
South African Association of Analytical Chemists		11
Starr Family Association		2
Sterne, Selma	34	
Scribner's, Charles Sons	1	
Soliterman, Mark (70 periodicals)	117	133
Stollerman, Abraham (1 photograph)		
Talmage, Robert S.	1	
Vogt, Mrs. Mary M.		1
Wauchope, Major-General A. G.	2	
Welcher, The Misses (3 prints)		
Wendell, Nathan	12	
Williams College	1	
Winchester College. Archæological Society	1	
Windsor Press		1
Woerishoffer, Mrs. Anna		1
Wolfson, Mrs. B. (57 periodicals)	116	78

PUBLICATIONS OF THE NEW YORK PUBLIC LIBRARY

(Now in Print)

HISTORY AND GUIDES

	PRICE
History of The New York Public Library, by H. M. Lydenberg. 1923	$2.00
Handbook of The New York Public Library	.25
Facts for the Public	.05
Central Building Guide	.05
Questions About Your Library (General Information about the Library)	Free
For Sightseers. Central Building	Free

PERIODICALS

Annual Report of The New York Public Library. (A limited number are given free upon request.)

Bulletin of The New York Public Library. Published monthly. Chiefly devoted to the Reference Department. Bibliography, news of the Library, reprints of manuscripts, descriptions of new accessions. $1.00 a year; current single numbers for 10 cents. Back numbers at advanced rates.

Branch Library Book News. A selected list of new additions to the Circulation Department, with other lists and articles. Published monthly, except in July and August. For sale at the Branches and at the Inquiry Desk. 2 cents a copy; 25 cents a year, postpaid.

New Technical Books. A selected list of books on industrial arts and engineering, recently added to the Library. Published quarterly. 25 cents a year, postpaid.

Municipal Reference Library Notes. Published weekly except during July and August, for circulation among the officials and employees of the City of New York. Price: $2.00 a year; 5 cents a copy. Apply at Room 512, Municipal Building.

LIST OF BOOKS IN THE LIBRARY RELATING TO VARIOUS TOPICS, TEXTS PRINTED FROM MANUSCRIPTS OWNED BY THE LIBRARY, ETC.

REFERENCE DEPARTMENT

	PRICE
Almanacs, A list of New York, 1694–1850. 1921	1.00
American Interoceanic Canals. A list of references. 1916	.30
American-Romani Vocabulary, by Albert Thomas Sinclair. 1915	.05
Armenia and the Armenians. A list of references. 1919	.30
Article of Faith, An, by Hiller C. Wellman. 1919	.05
Assyria and Babylonia. A list of references. 1918	.45
Astor Library, Catalogue of the. 8 volumes. Sewed. Per volume	5.00
Automobile Tires. A list of references. 1923	.10
Avery Collection, Handbook of. 1901. 84 p.	.50
Avery Collection, Handbook of — Supplement: Additions of Prints, 1901–1920. 1921	.15
Avesta and Romani, by Albert Thomas Sinclair. 1916	.05
Beadle Collection of Dime Novels. 1922	.50
Beaumarchais, Editions of, in New York City. 1925	.15
Berlin and the Prussian Court in 1798. From a ms. journal of Thomas Boylston Adams. 1916	.15
Billings, Dr. John Shaw, Memorial Meeting in honor of the late. 1913	.10
British Genealogy and Local History, List of works relating to. 1910	1.15

	PRICE
City Planning and Allied Topics, Select list of works relating to. 1913	.15
Color Photography. 1924	.75
Columbus. Letter of Columbus on the discovery of America. Facsimile of the pictorial edition, with a new and literal translation, and a complete reprint of the four oldest Latin editions. 1892. Cloth	.50
Commencement Addresses by Stephen H. Olin and Carl B. Roden. 1924	.10
The Compensations, by Asa Don Dickinson. 1922	.05
Cruise of the U. S. Brig *Argus* in 1813. Journal of Surgeon James Inderwick. 1917	.10
Dehydrated Foods. A list. 1917	.05
Diplomatic History of the European War. A list of references. 1917	.10
Does New York Know New York? Its Library, for Instance, by Edward J. O'Brien. 1919	Free
Druids and Druidism. A list of references. 1920	.05
Early American Poetry, 1610 to 1820. A list of works. 1917	.20
Echo-Device in Literature. By Elbridge Colby. 1920	.25
Egypt, Ancient. Sources of Information. 1925	2.75
Emmet Collection of Mss., Prints, etc., Catalogue of. Sheets. 1900	5.00
Eno Collection of New York City Views. 1925	.75
Flatboating on the Yellowstone, 1877. By Fred G. Bond. 1925	.25
Folk Music of the Western Hemisphere. 1925	.50
Geology, Mineralogy and Palæontology of New Jersey, List of works on. 1916	.15
Gypsies in Carniola and Carinthia, by Albert Thomas Sinclair. 1917	.05
Gypsies of Monastir, by Rev. Lewis Bond. 1917	.05
Henry George and the Single Tax. 1926	.50
Heritage of the Modern Printer, by Margaret B. Stillwell. 1916	.05
Historical Printing Club, Publications of the. (List of prices furnished upon application.)	
Historical Prints and Early Views of American Cities. Catalogue of Exhibition. 1917	.05
Holcroft, Thomas, A Bibliography of. By Elbridge Colby. 1922	.60
Holt, John — Printer and Postmaster. 1920	.10
Hudson, Henry, The Hudson River, Robert Fulton and Steam Navigation, List of prints, books, manuscripts, etc., relating to. 1909	.30
Inks, Chemistry and Manufacture of. 1926	.75
Inventory of the Rensselaerswyck Manuscripts. 1924	.25
Irvingiana, The Seligman Collection of. 1926	.25
Isle de Bourbon (Réunion) Documents, 1701–1710. Printed from the original manuscript in the Library. 1909	.20
Japanese-American Relations. A list of works. 1921	.40
Jesuit-Huron Relation of 1648–1649 — A hitherto unknown edition of. By V. H. Paltsits. 1923	.05
The Jewish Division in the Reference Department. 1926	Free
Journalism. A bibliography. 1924	2.00
Joys of Librarianship, by Arthur E. Bostwick. 1918	.05
Kennan Collection. By Abraham Yarmolinsky. 1921	.10
Latin-American Periodicals Current in the Reference Department. 1920	.05
Letters of American Clergymen, 1711 to 1860. 1917	.05
Letters of American Physicians and Surgeons. 1919	.05
The Librarian Himself, by H. L. Koopman. 1916	.05
Librarian as a Unifier, by Andrew Keogh. 1915	.05
Library Tonic, by George Parker Winship. 1917	.05
The Lost Librarian, by Miss G. M. Walton. 1925	.10
Lycanthropy. A list of works. 1920	.05
Macpherson's Ossian and the Ossianic Controversy. A contribution towards a bibliography. 1926	.25
The Manuscript Division, by Victor Hugo Paltsits. 1915	.15
Mountaineering. Selected list. 1916	.05
Music Publishers in New York City before 1850. A directory. 1917	.10
Nationalization of Coal Mines. 1920	.10
Naval Architecture and Shipbuilding. A list of references. 1919	.20
The New York Public Library and the Business Man. 1923	Free

	PRICE
Newspapers and Official Gazettes, Checklist of. 1915	1.85
Numismatics. List of works. 1914	.65
Old Prints in the Prints Division. 1918	.05
Orlando Gibbons Tercentenary, by Jeffrey Mark. 1926	.15
Oxy-Acetylene Welding. List. 1914	.15
Pageants in Great Britain and the United States. A list of references 1916	.15
Paintings, Catalogue of, in the picture galleries of the Library. 1912	.10
Persia, List of works relating to. 1915	.50
The Photostat in Reference Work. 1925	.15
The Pitcairn Bible. 1924	.15
Prints and their Production: Supplement. 1917	.05
Provençal Literature & Language. 1925	3.00
Robinson Locke Dramatic Collection. 1925	.10
Romani and Dard, by George F. Black. 1916	.05
Russian, other Slavonic and Baltic Periodicals, A list of. 1916	.15
Schoolroom Decoration. A list of references. 1917	.05
Scientific Management. A list of references. 1917	.25
Scotland. A list of works. 1916	3.00
Shakespeareana, Catalogue of Exhibition of, compiled by Henrietta C. Bartlett. 1916	1.00
The Soul of the Library, by J. I. Wyer. 1923	.05
Spalding Baseball Collection. 1922	.20
Stauffer Print Collection, by Charles Allen Munn. 1916	.05
Storage Batteries. A list of references, 1900–1915. 1915	.15
Submarines. A list of references. 1918	.35
Superstructures, by W. N. C. Carlton. 1918	.05
Tilden, S. J. Letters and Literary Memorials, edited by John Bigelow. 2 v. 1908	6.00
Tilden, S. J. Writings and Speeches, edited by John Bigelow. 2 v. 1885	6.00
Timothy Dexter and His "Pickle for the Knowing Ones." 1922	.15
To Nebraska in '57. A Diary of Erastus F. Beadle. 1923	2.00
Torpedoes. A list of references. 1917	.30
The Walt Whitman Exhibition. By Emory Holloway. 1925	Free
War Memorials. A list. 1919	.05
War Taxation, 1914–1917. A list of references. 1917	.05
Washington Eulogies. A checklist. 1916	.25
Washington's Note Book. Selections from a newly discovered manuscript, edited by Victor Hugo Paltsits. 1920	.05
What Did Macaulay Say About America? Text of four letters to Henry S. Randall. 1925	.40
What's the Matter with the Public Library? By E. L. Pearson. 1922	Free
Why They Came to the Library. 1920	Free
Winthrop, Theodore, Bibliographical notes on, by Elbridge Colby. 1917	.05
Winthrop Books, Plates of the, by Elbridge Colby. 1918	.05

MUNICIPAL REFERENCE LIBRARY

Publications to be obtained at the Municipal Reference Library, Room 512, Municipal Building.

	PRICE
Guide Posts on the Road to Health; A list of books	.10
Teaching Citizenship via the Movies. A survey of civic motion pictures	.10
Visualizing Citizenship	.15
What to Read on New York City Government. A list of references	.05

CIRCULATION DEPARTMENT

Publications to be obtained at any Branch Library, or from the Chief of the Circulation Department, 476 Fifth Avenue. Publications given free unless otherwise stated.

Branch Library Book News. *See* Periodicals.

LISTS OF BOOKS FOR ADULTS

Altman Collection

Books of Interest to Women Voters

Catalogue of Books for the Blind in Revised Braille. Grades One, Two and Three. November, 1921; Supplements, December, 1922; January, 1925

Catalogue of Books for the Blind in Revised Braille. Grade One-and-a-Half. November, 1921; Supplements, October, 1924; May, 1925

Catalogue of Books for the Blind in the Moon type. November, 1921; Supplements, December, 1922, October, 1924

Catalogue of Music Scores in the Braille Type. July, 1922; Supplement, September, 1923

Christmas Exhibit

Current Periodicals and Newspapers on File at the Branches

Fairy Tales for Grown-up Readers

List of Piano Music

Military Training

"The New York of the Novelists"

Old-Fashioned Novels

Plays of Thirteen Countries

Poetry of the Supernatural

Polish Book List

Romans à Clef; A List of Novels with Characters based on Real Persons

Sailor's Yarns. 2 cents.

Stories of Romance and Imagination

Stories of the Sea. 5 cents.

Supplement to the Catalogue of Music for the Blind. Music Scores in the American Braille and New York Point Types

Wanderers and Vagabonds

LISTS FOR CHILDREN

Favorite Stories of the Library Reading Clubs

Journeys to Foreign Lands

LISTS FOR ADULTS AND CHILDREN

New York City and the Development of Trade

Sea and Shore

The Shakespearian Festival

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W. Vincent Astor
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Patrick Cardinal Hayes
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BUILDINGS AND BRANCHES

Central Building, 476 Fifth Avenue, contains general administrative offices of the whole system, all Divisions of the Reference Department, and the Central Circulation Branch, Central Children's Room, Library for the Blind, and the Extension Division.

Municipal Reference Branch, Room 512, Municipal Building. (Free for reference.)

CIRCULATION BRANCHES

MANHATTAN

33 East Broadway. (Chatham Square.)
192 East Broadway. (Seward Park.)
61 Rivington Street.
388 E. Houston St. (Hamilton Fish Park.)
66 Leroy Street. (Hudson Park.)
135 Second Avenue. Near Eighth Street. (Ottendorfer.)
331 East 10th Street. (Tompkins Square.)
251 West 13th Street. (Jackson Square.)
228 East 23rd Street. (Epiphany.)
209 West 23rd Street. (Muhlenberg.)
303 East 36th Street. (St. Gabriel's Park.)
457 West 40th Street.
564 Lexington Avenue. (Cathedral.)
742 Tenth Avenue. Near 51st Street. (Columbus.)
121 East 58th Street.
328 East 67th Street.
190 Amsterdam Avenue. Near 69th Street. (Riverside.)
1465 Avenue A. Near 78th St. (Webster.)
222 East 79th Street. (Yorkville.)
444 Amsterdam Avenue. Near 81st Street. (St. Agnes.)
112 East 96th Street.
206 West 100th Street. (Bloomingdale.)
174 East 110th Street. (Aguilar.)
203 West 115th Street.
116th Street and Amsterdam Avenue. Room 108a, Columbia University Library (Columbia Sub-branch.)
9 West 124th Street. (Harlem Library.)
224 East 125th Street.
518 West 125th Street. (George Bruce.)
103 West 135th Street.
503 West 145th Street. (Hamilton Grange.)
1000 St. Nicholas Avenue. Cor. 160th Street. (Washington Heights.)
535 West 179th Street. (Fort Washington.)
178 Sherman Ave. (Inwood Sub-branch.)

THE BRONX

321 East 140th Street. (Mott Haven.)
761 East 160th Street. (Woodstock.)
910 Morris Avenue. Corner 162nd Street. (Melrose.)
78 West 168th Street. (High Bridge.)
610 East 169th Street. (Morrisania.)
1866 Washington Avenue. Cor. 176th Street. (Tremont.)
80 West 181st Street. (University Heights Sub-branch.)
1741 Wallace Ave. (Van Nest Sub-branch.)
2556 Bainbridge Avenue. (Fordham.)
3041 Kingsbridge Avenue. Near 230th Street. (Kingsbridge.)
3917 White Plains Road. Near 223rd Street. (Williamsbridge Sub-branch.)
325 City Island Avenue. (City Island Sub-branch.)

RICHMOND

5 Central Avenue, Staten Island. (St. George.)
75 Bennett Street. (Port Richmond.)
85 State Street. (West New Brighton Sub-branch.)
132 Canal Street. (Stapleton.)
7430 Amboy Road. (Tottenville.)
56 Gifford's Lane. (Great Kills Sub-branch.)
180 Rose Avenue. (New Dorp Sub-branch.)